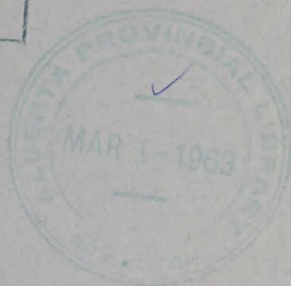


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**ANNUAL REPORT**  
OF THE  
**Department of Public Works**  
OF THE  
**PROVINCE OF ALBERTA**  
**1961 - 62**

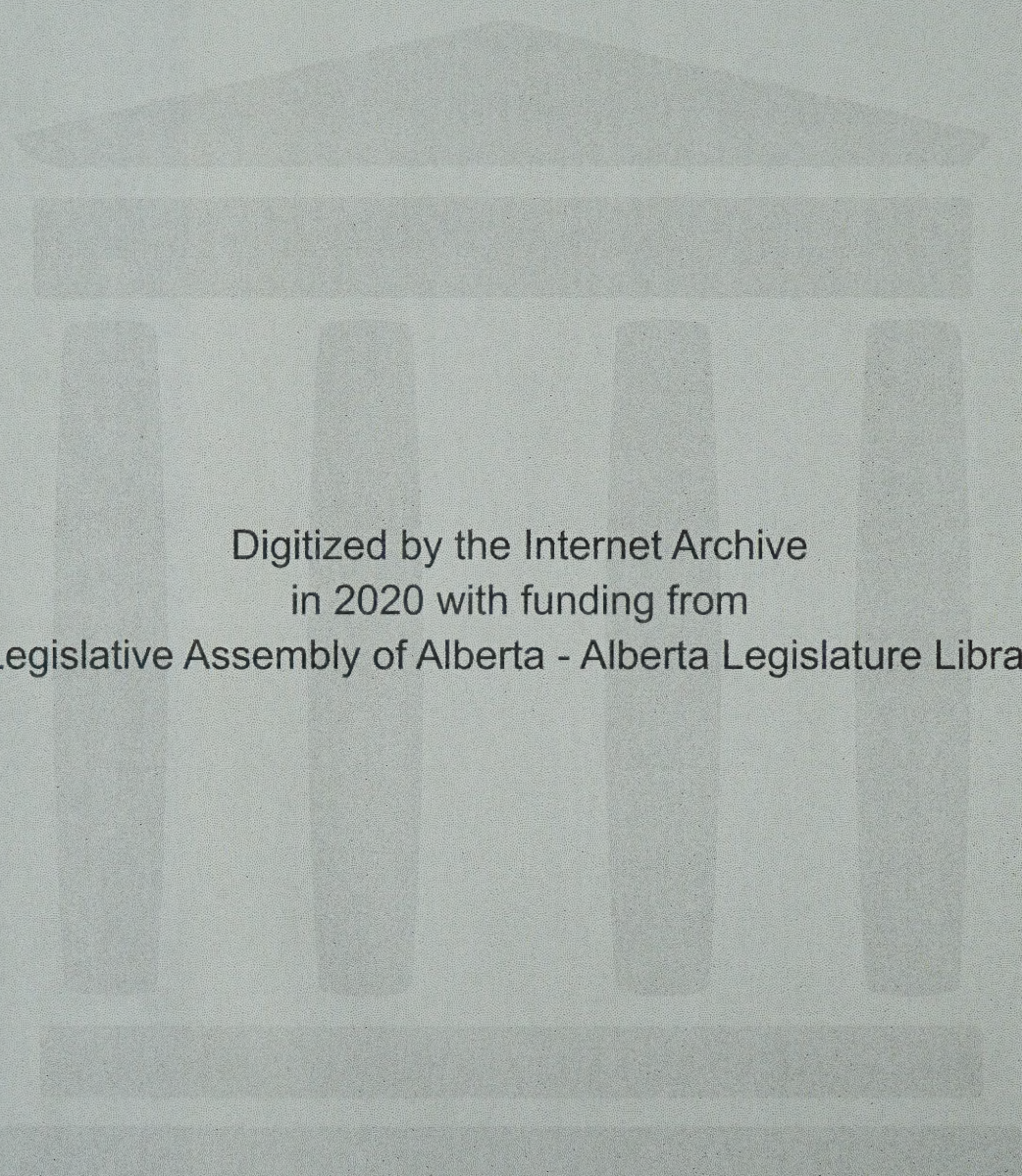
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PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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EDMONTON, ALBERTA

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**ANNUAL REPORT**  
OF THE  
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**THE HONOURABLE JAMES HARTLEY**

*Minister of Public Works*

EDMONTON, October 1, 1962

To His Honour

J. PERCY PAGE,

Lieutenant Governor of the  
Province of Alberta.

Sir:

The undersigned has the honour to submit herewith the Report of the Department of Public Works for the year ended March 31, 1962.

Respectfully submitted,

JAMES HARTLEY,

Minister of Public Works.



**MR. ARTHUR ARNOLD**

*Deputy Minister of Public Works*

**DEPARTMENT OF PUBLIC WORKS**

Edmonton, Alberta,

October 1, 1962

TO:

The Honourable James Hartley,  
Minister,  
Department of Public Works:

Sir:

I have the honour to submit herewith a report covering the activities of the Department of Public Works for the fiscal year ending March 31, 1962.

During this past year the Department undertook an extensive programme of construction and maintenance, the details of which are contained in this report. A number of photographs have been included to illustrate some of the more distinctive buildings that were under construction or completed in 1961-62.

The Mechanical Branch, which is responsible for the operation and maintenance of the power and heating plant steam services at sixteen Provincial Institutions, continued this year to expand its services.

The facilities of this Department have been made available to the Alberta Government Telephones and the Alberta Liquor Control Board. Numerous telephone exchanges throughout the Province have been designed by this Department and the work undertaken for the Alberta Liquor Control Board is listed elsewhere in this report.

Respectfully submitted,

ARTHUR ARNOLD,

Deputy Minister of Public Works.

## THE FUNCTION OF THE DEPARTMENT OF PUBLIC WORKS

The Department of Public Works is required to provide suitable accommodation, the necessary furnishing and equipment to all Departments of the Government so that the Departments may carry out the various functions required of them. Such accommodation is provided in buildings rented, purchased or constructed by the Department of Public Works.

The Department is responsible for the construction of all Provincial Government Buildings.

The chief officials of the Department are:

Minister of Public Works .....	Hon. J. Hartley
Deputy Minister of Public Works .....	Mr. A. Arnold
Assistant Deputy Minister of Public Works (Administration) .....	Mr. S. E. Kenworthy
Chief Architect .....	Mr. H. A. Henderson
Chief Engineer .....	Mr. J. Hunt
Mechanical Superintendent .....	Mr. F. E. Coe
Administrative Accountant .....	Mr. K. C. Thomas
Supervisor of Maintenance .....	Mr. H. Brettelle
Supervisor of Construction .....	Mr. H. Kinsey
Co-ordinator of Works and Maintenance ..	Mr. V. C. Heim

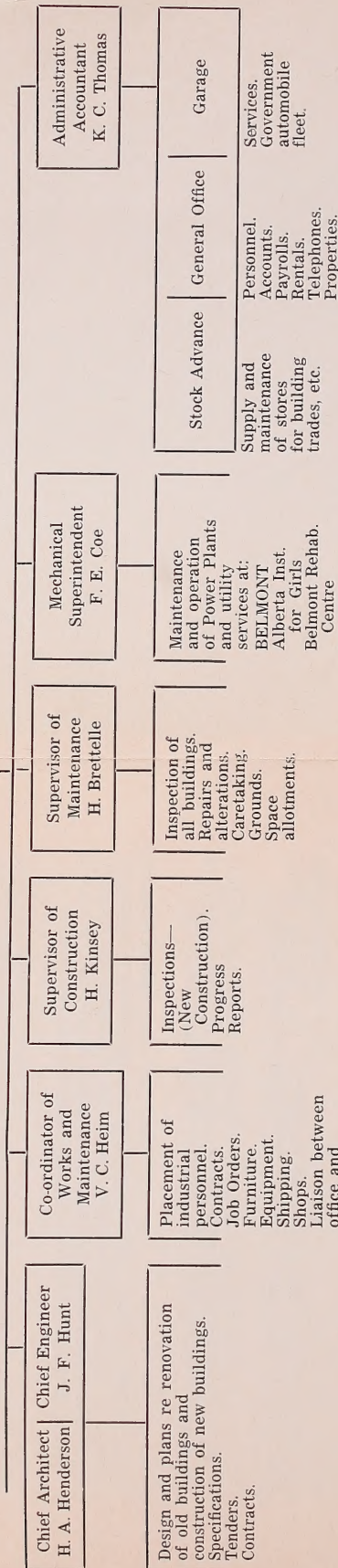
The Department is also responsible for the servicing and maintenance of all Provincial Government owned buildings, with the exception of various self-contained institutions, such as the Provincial Gaols, the Schools of Agriculture, and the University of Alberta. The maintenance and servicing of these buildings needs the services of a large group of men of assorted technical skills. Carpenters, plumbers, electricians and other tradesmen keep these buildings in good repair. Gardeners maintain the surrounding grounds which are quite extensive at some points, namely, the Provincial Mental Institute, Oliver and the Institute of Technology and Art, Calgary. Caretakers keep the buildings clean, men operate the elevators, and watchmen guard the buildings at night.

The extensive programme of construction which we are presently undertaking requires the services of a large staff of architects, engineers, draughtsmen, surveyors and building inspectors, who design and plan the buildings and supervise the work of the contractors. Some urgent and also minor construction work is undertaken by our own forces.

MINISTER  
Hon. James Hartley

DEPUTY MINISTER  
Arthur Arnold

ASSISTANT DEPUTY MINISTER (Administration)  
& PERSONNEL OFFICER  
S. E. Kenworthy



BOWDEN  
Bowden Institution  
CALGARY  
Baker Memorial  
Sanatorium  
Provincial Gaol  
Southern Alberta  
Institute of  
Technology  
CAMROSE  
Rosehaven Home  
CLARESHOLM  
Prov. Auxiliary  
Hospital  
EDMONTON  
Leg. Bldgs.  
S. Edm. Plant  
FORT  
SASKATCHEWAN  
Provincial Gaol  
LETHBRIDGE  
Provincial Gaol  
OLIVER  
Prov. Mental Inst.  
PONOKA  
Prov. Mental Hosp.  
RED DEER  
Deerhome Inst.

This requires the Department to maintain a staff of tradesmen which is augmented by temporary staff as the requirements of the work necessitates.

The Department operates various trade shops where furniture and equipment such as laboratory benches, etc., are made.

A group of engineers, firemen and tradesmen working under the direction of the Mechanical Superintendent is responsible for the supply of electrical power, heat, water and sewage disposal at the sixteen largest institutions. These men also design, install and maintain the special equipment necessary.

At these institutions, farm machinery, milking, canning, laundry, kitchen and fire fighting equipment are also maintained and kept in good repair by the staff. The utilities and maintenance servicing of a large institution is comparable to the servicing of a town of two to three thousand people.

The Department also has a number of other functions, including the arrangements for the installation and rental of telephones, and when required the buying and leasing of lands for building sites.

A large modern garage located on the ground floor of the Public Works Building No. 2 in Edmonton services the automobile fleet of the Government.

## CALLING OF TENDERS AND AWARDING OF CONTRACTS

Departments of the Government who need additional work space submit their space requirements to the Department of Public Works. If, in order to provide this additional space, a new building is deemed necessary, the Architectural Office effects liaison with the Department or Departments concerned and the actual space requirements and the purpose of the proposed building is determined. In co-operation with the Departments who will be housed in the building, preliminary plans are drawn and from such plans an estimate of the cost of construction is obtained. A sum of money is submitted in the annual estimates for the next fiscal year for approval by the Legislature. Needless to say, the actual amount of money requested is dependent upon the amount of construction that this Department estimates will be done in the following fiscal year. If actual construction is not expected in the following fiscal year, a nominal sum not exceeding \$10,000.00 is requested to cover preliminary investigations on the site which may include soil testing and/or service line relocations.

The design and the basic construction materials of which the structure will be built are determined by the Deputy Minister in consultation with the Chief Architect and the Chief Engineer. Detailed plans are then drawn and submitted for approval to the Deputy Minister bearing the signature of the Chief Engineer and the Chief Architect. If approval is obtained from the Deputy Minister, the plans are submitted to the Minister of the Department or Departments concerned and these Ministers are required to sign the plans. Finally, the plans are submitted to the Minister of the Department of Public Works for signature.

Advertisements calling for tenders are placed in the major newspapers throughout the Province, in Trade Papers and the various Builders' Exchanges and such advertisements usually run for a period of three days.

The size of the project under construction determines the length of the "tender period". All tenders are opened in public at two o'clock on a Thursday afternoon in the Conference Room of the Department of Public Works. The Department will consider the use of acceptable alternate materials to those specified during the "tender period" but applications for such alternate materials will not be accepted later than ten days prior to the closing date of tenders. No approval for the employment of alternate materials is considered after the contract has been awarded. Contracts for large projects are usually tendered in three parts: General, Electrical and Mechanical. The successful tenderers for the electrical and mechanical portions of the project are assigned as subcontractors to the successful tenderer for the general contract and the general contractor is paid 4% of the cost of the electrical and mechanical contracts as a fee for administration, supervision and co-ordination of the entire project being constructed. When it is necessary to issue an addendum approving an alternate material or a change in design, such addendums are issued at least seven days prior to the closing of tenders.

and, incidentally, these addendums are sent by double registered mail to any contractor who has indicated his intention to bid on the project by obtaining plans and specifications from this office. The plans and specifications are available only to those firms registered in the Province of Alberta by the payment of a nominal deposit which is refunded when the plans and specifications are returned to the Department. Additional copies of the plans and specifications are also sent to the Builders' Exchanges in the major cities throughout the Province.

Each tenderer must submit with his tender a sum of not less than 10% of the total tender price. While such deposit is invariably by certified cheque, the Department would accept cash or Dominion of Canada Bearer Bonds. At the close of the tender opening, the tender deposits submitted by the two lowest tenderers are held pending a review of tenders. The lowest tender is checked carefully by the Chief Architect and the Chief Engineer to ensure that it complies with the specifications and that all sub-contractors are shown and that those shown are acceptable to the Department. A Bid Sheet is prepared and signed by the committee that opened the tenders and forwarded to the Minister of Public Works with a Press Release giving complete details. Following the Minister's approval, contract documents are prepared in triplicate and forwarded to the contractor for signature. When returned, these are signed by the Minister of Public Works and the successful contractor is notified that he may commence work.

When the successful contractor returns the signed contract documents to the Department he may substitute his certified cheque, which equals not less than 10% of the total tendered price, with a 100% Material and Performance Bond. If he does not do this but leaves as a guarantee or security deposit the original certified cheque or replaces this cheque with Dominion of Canada Bearer Bonds equal to 10% of the total tendered price, the Department retains as a holdback 10% of the total of each progress estimate. However, if the contractor does substitute a 100% Material and Performance Bond for his original certified cheque, the Department retains 15% of the total of each progress estimate. It will thus be seen that when the contractor has completed the project, the Department has either:—

1. A certified cheque or Dominion of Canada Bearer Bonds equal to 10% of the total tendered price as a guarantee for the satisfactory completion of the contract and also a holdback equal to 10% of the total payments made by progress estimates, or
2. A 100% Material and Performance Bond as a guarantee for the satisfactory completion of the contract and also a holdback equal to 15% of the total payments made by progress estimates.

The Department makes an inspection of the completed project and if the contract has been completed to the satisfaction of the Department, payment of the monies held back from the payment of each progress estimate is made to the contractor 30 days later. If the project is not completed to the satisfaction of the Department, the payment of the monies held back from the payment of each progress estimate is withheld until all defects and deficiencies have been corrected.

**GENERAL FORM OF TENDER**

NOTE: Failure of contractor to complete this form in all respects or to comply with the specification requirements may render the tender ineligible for consideration.

Project \_\_\_\_\_

WE, the undersigned, having examined and read over the plans, drawings, specifications and conditions of contract for the above works as prepared by the Department of Public Works DO HEREBY TENDER and agree to construct all the work of every description in the construction and final completion of the above work in accordance with the plans, specifications and conditions of contract, and to furnish all labour, plant materials and other things necessary to equip all trades in the construction and final completion of the above work for the total tender price of \_\_\_\_\_

Dollars.

BASIC PRICE \_\_\_\_\_ \$ \_\_\_\_\_

Prime Cost, Hardware \_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

Total tender price as quoted above \_\_\_\_\_ \$ \_\_\_\_\_

WE enclose a certified cheque for a sum of not less than Ten per cent (10%) of our total tender price as a guarantee that, should our tender be accepted, we are willing and ready to enter into this Contract and we hereby forfeit all right and title to the said tender deposit if we refuse or neglect to sign the Contract if called upon to do so.

Name of Contractor \_\_\_\_\_

Business address \_\_\_\_\_

Signature of authorized representative \_\_\_\_\_

The Tender is based on prices by the undermentioned firms for the several sub-trades respectively and should this tender be accepted, we agree to employ these firms for such sub-trades subject to the approval of the Owners—

TRADE	NAME OF SUB-CONTRACTOR
1. Excavation _____	_____
2. Concrete _____	_____
3. Structural Steel _____	_____
4. Reinforcing and placing _____	_____
5. Miscellaneous Steel and Iron _____	_____
6. Millwork _____	_____
7. Glass and Glazing _____	_____

TRADE	NAME OF SUB-CONTRACTOR
8. Miscellaneous metal work	
9. Metal entrances	
10. Floor covering	
11. Brick and tile	
12. Stone, etc.	
13. Marble, etc.	
14. Ceramic tile and terrazzo	
15. Roofing and sheet metal work	
16. Insulation	
17. Lathing, Plastering and stucco	
18. Acoustic tile	
19. Painting	
20. Heating and air conditioning	
21. Plumbing and Gasfitting	
22. Electrical	

If the specifications require unit prices then a schedule of such unit prices must be attached hereto.

**ELECTRICAL FORM OF TENDER**

NOTE: Failure of contractor to complete this form in all respects or to comply with the specification requirements may render the tender ineligible for consideration.

Project .....

WE, the undersigned, having examined and read over the plans, drawings, specifications and conditions of contract for the above works as prepared by the Department of Public Works DO HEREBY TENDER and agree to construct all the work of every description in the construction and final completion of the above work in accordance with the plans, specifications and conditions of contract, and to furnish all labour, plant materials and other things necessary to equip all trades in the construction and final completion of the above work for the total tender price of .....

..... Dollars

BASIC PRICE ..... \$ .....

Prime Cost ..... \$ .....

..... \$ .....

..... \$ .....

..... \$ .....

Total tender price as quoted above ..... \$ .....

We enclose a certified cheque for a sum of not less than Ten per cent (10%) of our total tender price, as a guarantee that, should our tender be accepted, we are willing and ready to enter into this Contract and we hereby forfeit all right and title to the said tender deposit if we refuse or neglect to sign the Contract if called upon to do so.

Name of Contractor .....

Business address .....

Signature of authorized representative .....

The tender is based on prices by the undermentioned firms for the several sub-trades respectively and should this tender be accepted, we agree to employ these firms for such sub-trades subject to the approval of the owners.

MATERIAL OR EQUIPMENT	NAME OF MANUFACTURER
-----------------------	----------------------

Switches .....	.....
----------------	-------

Panels .....	.....
--------------	-------

Receptacles .....	.....
-------------------	-------

Motor Control Centres .....	.....
-----------------------------	-------

Magnetic Switches .....	.....
-------------------------	-------

Power Centres .....	.....
---------------------	-------

MATERIAL OR EQUIPMENT	NAME OF MANUFACTURER
Transformers -----	-----
Main Panel -----	-----
Bus Duct -----	-----
Battery Bank -----	-----
Clock System -----	-----
Fire Alarm System -----	-----
Intercomm System -----	-----
Paging System -----	-----
Nurses Call System -----	-----

If the specifications require unit prices then a schedule of such unit prices must be attached hereto.

**MECHANICAL FORM OF TENDER**

NOTE: Failure of contractor to complete this form in all respects or to comply with the specification requirements may render the tender ineligible for consideration.

Project .....

WE, the undersigned, having examined and read over the plans, drawings, specifications and conditions of contract for the above works as prepared by the Department of Public Works DO HEREBY TENDER and agree to construct all the work of every description in the construction and final completion of the above work in accordance with the plans, specifications and conditions of contract, and to furnish all labour, plant materials and other things necessary to equip all trades in the construction and final completion of the above work for the total tender price of .....

Dollars

BASIC PRICE ..... \$ .....

Prime Cost, Hardware ..... \$ .....

..... \$ .....

..... \$ .....

..... \$ .....

Total tender price as quoted above ..... \$ .....

WE enclose a certified cheque for a sum of not less than Ten per cent (10%) of our total tender price as a guarantee that, should our tender be accepted, we are willing and ready to enter into this Contract and we hereby forfeit all right and title to the said tender deposit if we refuse or neglect to sign the Contract if called upon to do so.

Name of Contractor .....

Business address .....

Signature of authorized representative .....

The Tender is based on prices by the undermentioned firms for the several sub-trades respectively and should this tender be accepted, we agree to employ these firms for such sub-trades subject to the approval of the Owners—

MATERIAL OR EQUIPMENT	NAME OF MANUFACTURER
Boilers .....	.....
Convertors .....	.....
Radiation .....	.....
Cabinet Unit Heaters and Unit Heaters .....	.....
Radiation Specialties, Vents, Valves, etc. ....	.....

MATERIAL OR EQUIPMENT	NAME OF MANUFACTURER
Circulation pumps hot water heating -----	-----
Steam valves -----	-----
Pressure Reducing valves -----	-----
H.P. Traps -----	-----
L.P. Traps, Steam -----	-----
Compensators up to 3" -----	-----
Expansion Joints over 3" -----	-----
Hot water heating tanks -----	-----
Condensate pumps -----	-----
Grilles and Diffusers -----	-----
Louvers Inlet, Exhaust -----	-----
Supply, Recirculation air fans -----	-----
Heating coils -----	-----
Air washers -----	-----
Air washer pumps -----	-----
Air filters -----	-----
Duct Thermal Insulation -----	-----
Duct Acoustical Insulation -----	-----
Exhaust fans -----	-----
Cooling Tower -----	-----
Valves, Plumbing -----	-----
Vibration isolators -----	-----
Control system compressor -----	-----
Plumbing fixtures -----	-----
Domestic hot water tanks -----	-----
Domestic hot water convertors or heaters -----	-----
Drinking water coolers -----	-----
Pipe insulation -----	-----
Carriers—water closet -----	-----
Roof, floor, drains -----	-----
Pumps, sump -----	-----
Pumps, submersible -----	-----
Pipe hangers -----	-----
Pipe guides -----	-----
Fire hose cabinets -----	-----
Sprinkler system -----	-----
Gauges, pressure -----	-----
Gauges, thermometers -----	-----
Motors for mech. equipment -----	-----

WORK	NAME OF SUB-CONTRACTOR
B.	
Heating system -----	-----
Ventilation system -----	-----
Control system -----	-----
Plumbing -----	-----
Insulation — piping -----	-----
Insulation — ductwork -----	-----
Insulation — acoustical -----	-----
Fire Sprinkler system -----	-----

MATERIAL OR EQUIPMENT	NAME OF SUPPLIER
C.	
Plumbing fixtures -----	-----
Floor, roof drains -----	-----

## TENDERS CALLED AND CONTRACTS AWARDED

THE FOLLOWING BIDS WERE OPENED IN PUBLIC AND CONTRACTS AWARDED DURING THE FISCAL YEAR WHICH ENDED MARCH 31st, 1962. Bids marked with an asterisk were withdrawn by the tenderer before this Department had forwarded a letter of acceptance to the bidder or were rejected by this Department because the bidder had failed to comply with the regulations governing the submission of tenders. Where the low bid was withdrawn or rejected and the contract was awarded to the second lowest bidder, authority for so doing was obtained by Order of the Lieutenant Governor in Council.

### CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

ERECTION AND COMPLETION OF THE HOME FOR  
THE AGED, ELMWOOD (JASPER PLACE)  
April 13th, 1961.

#### GENERAL:

Bennett & Forster Ltd. _____	\$262,782.00
Northgate Construction Co. Ltd. _____	261,392.00
Camwil Construction Ltd. _____	255,500.00
Rosen Construction Co. Ltd. _____	253,822.00
Silisky Construction _____	252,200.00
Poole Construction Co. Ltd. _____	250,283.00
Alta-West Construction Ltd. _____ awarded	<b>248,088.00</b>

#### ELECTRICAL:

Hillas Electric Co. Ltd. _____	39,770.00
Johnson Bros. Electric Co. Ltd. _____	39,477.00
Young Electric Ltd. _____ awarded	<b>37,894.00</b>

#### MECHANICAL:

Carse, Anderson Ltd. _____	93,293.00
B. A. Moir & Co. Ltd. _____	92,730.00
Alberta Mechanical Contractors Ltd. _____	91,500.00
Mecon Installations Ltd. _____	87,890.00
Mercier & Germaine Co. Ltd. _____	87,283.00
Fuller & Knowles Co. Ltd. _____	83,955.00
Accurate Plumbing Co. Ltd. _____	83,600.00
Economy Plumbing & Heating Co. Ltd. _____ awarded	<b>79,641.00</b>

ERECTION AND COMPLETION OF THE "D" SHOPS,  
INSTITUTE OF TECHNOLOGY & ART, CALGARY.  
April 13th, 1961.

#### GENERAL:

Bird Construction Co. Ltd. _____	265,660.00
Poole Construction Co. Ltd. _____	259,727.00
Burns & Dutton Concrete & Construction Co. Ltd. _____	252,232.00
Northgate Construction Co. Ltd. _____	251,893.00
C. J. Oliver Ltd. _____	248,000.00
Borger Structures Ltd. _____	245,600.00
Bennett & White Alberta Ltd. _____ awarded	<b>240,133.00</b>

CONTRACT TENDERED FOR AND TENDERERS	AMOUNT BID
-------------------------------------	---------------

## ELECTRICAL:

Dickie's Electric Ltd. ....	109,717.00
Johnson Brothers Electric Co. Ltd. ....	106,440.00
Canadian Comstock Co. Ltd. ....	104,151.00
Electrical Contracting and Machinery Co. Ltd. ....	100,500.00
Industrial Power Installations Ltd. ....	99,699.00
Wirtanen Electric Co. Ltd. ....	99,450.00
Hume & Rumble Ltd. ....	96,604.00
Wilf Got Electric (Calgary) Ltd. .... awarded	<b>96,160.00</b>

## MECHANICAL:

Snyder and Boon Ltd. ....	206,000.00
Lockerbie and Hole Western Ltd. ....	195,927.00
Parkdale Plumbing Co. Ltd. .... awarded	<b>189,770.00</b>
Canadian Comstock Co. Ltd. ....	157,454.00*

EXTENSION OF PAVING CONSTRUCTION,  
UNIVERSITY OF ALBERTA HOSPITAL, EDMONTON.

April 20th, 1961.

Arthur A. Voice Construction Co. Ltd. ....	32,864.00
Everall Engineering Ltd. ....	30,921.20
Crown Paving & Concrete Ltd. ....	30,133.00
O'Hanlon Paving Ltd. ....	28,677.40
Nadon Paving Ltd. .... awarded	<b>24,545.40</b>

CONSTRUCTION OF MALLS, RETAINING WALLS,  
WALKS AND PATIOS, UNIVERSITY OF ALBERTA,  
EDMONTON. April 20th, 1961.

Poole Construction Co. Ltd. ....	62,931.16
Arthur A. Voice Construction Co. Ltd. ....	54,041.00
Fort Construction Co. ....	48,404.10
Crown Paving & Concrete Ltd. ....	45,428.00
Fraser & Rice Construction Ltd. .... awarded	<b>44,703.00</b>

GRADING, CURBING, SIDEWALKS AND PAVING,  
UNIVERSITY OF ALBERTA, EDMONTON.

April 20th, 1961.

Arthur A. Voice Construction Co. Ltd. ....	66,759.00
Fraser & Rice Construction Ltd. ....	65,499.00
Everall Engineering Ltd. ....	65,358.00
O'Hanlon Paving Ltd. ....	63,691.50
Crown Paving & Concrete Ltd. ....	62,982.00
Nadon Paving Co. Ltd. .... awarded	<b>56,634.40</b>

# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

EXTENSION OF WATER AND SEWER LINES,  
TERRACE BUILDING, EDMONTON. May 4th, 1961.

Burns & Dutton Concrete & Construction Co. Ltd.—	
Poole Construction Co. Ltd., a Joint Venture ____	28,355.10
N. S. Pawliuk & Son Contracting Ltd. _____	18,598.75
Wilson and Wilson Ltd. _____	17,783.60
Expert Ditchers Co. Ltd. _____	17,214.15
G. C. McLeod & Co. Ltd. _____ awarded	<b>16,228.80</b>

SUPPLY AND INSTALLATION OF TILE WORK FOR  
BUILDING No. 5, PROVINCIAL MENTAL INSTITUTE,  
OLIVER. May 4th, 1961.

"Bob" Candido's Tile & Terrazzo Co. Ltd. _____	5,450.00
Columbia Tile & Terrazzo Ltd. _____	4,380.00
M. L. Reeson and Co. Ltd. _____	3,982.00
Empire Marble and Tile Ltd. _____ awarded	<b>3,973.00</b>

ERECTION AND COMPLETION OF THE HOME FOR  
THE AGED, BELVEDERE (EDMONTON).  
May 18th, 1961.

## **GENERAL:**

The Foundation Company of Canada Ltd. _____	262,427.00
Alta-West Construction Ltd. _____	246,003.00
Northgate Construction Co. Ltd. _____	244,150.00
Poole Construction Co. Ltd. _____ awarded	<b>243,367.00</b>

## **ELECTRICAL:**

Hunter's Electrical Service _____	40,722.00
Johnson Brothers Electric Co. Ltd. _____	38,719.00
Commercial Electric Co. (Edmonton) Ltd. _____	37,810.00
Industrial Power Installations Ltd. _____	36,735.00
Young Electric Ltd. _____	34,695.00
Western Electrical Constructors Ltd. _____ awarded	<b>33,291.00</b>

## **MECHANICAL:**

Jamison and Kruger Co. Ltd. _____	88,200.00
Mecon Installations Ltd. _____	87,850.00
C. R. Frost Co. Ltd. _____	86,049.00*
Mercier and Germaine Co. Ltd. _____	84,336.00
Economy Plumbing and Heating Co. Ltd. ___ awarded	<b>83,509.00</b>

ERECTION AND COMPLETION OF THE HOME FOR  
THE AGED, ROSSLYN (EDMONTON). May 18th, 1961.

## **GENERAL:**

Wicklund Construction Ltd. _____	266,484.00
The Foundation Company of Canada Ltd. _____	262,337.00

## CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

Alta-West Construction Ltd. ....	245,403.00
Northgate Construction Co. Ltd. ....	243,944.00
Poole Construction Co. Ltd. .... awarded	<b>243,436.00</b>

### ELECTRICAL:

Hunter's Electrical Service .....	38,740.00
J. H. McKenzie Electrical Contractors Ltd. ....	38,106.00
Commercial Electric Co. (Edmonton) Ltd. ....	37,640.00
Johnson Brothers Electric Co. Ltd. ....	37,615.00
Industrial Power Installations Ltd. ....	36,770.00
Young Electric Ltd. ....	34,675.00
Western Electrical Constructors Ltd. .... awarded	<b>33,964.00</b>

### MECHANICAL:

Meccon Installations Ltd. ....	87,850.00
Jamison and Kruger Co. Ltd. ....	87,100.00
C. R. Frost Co. Ltd. ....	86,202.00*
Mercier and Germaine Co. Ltd. ....	84,336.00
Economy Plumbing and Heating Co. Ltd. .... awarded	<b>81,171.00</b>

## ERECTION AND COMPLETION OF THE HOME FOR THE AGED, McQUEEN (EDMONTON). May 18th, 1961.

### GENERAL:

The Foundation Co. of Canada Ltd. ....	275,841.00
Rosen Construction Co. ....	266,800.00
Silisky Construction Ltd. ....	264,850.00
Camwil Construction Ltd. ....	259,999.00
Northgate Construction Co. Ltd. ....	259,944.00
Poole Construction Co. Ltd. ....	258,237.00
Alta-West Construction Ltd. .... awarded	<b>258,003.00</b>

### ELECTRICAL:

J. H. MacKenzie Electrical Contractors Ltd. ....	39,863.00
Johnson Brothers Electric Co. ....	38,654.00
Hunter's Electrical Service .....	37,834.00
Commercial Electric Co. (Edmonton) Ltd. ....	37,595.00
Industrial Power Installations Ltd. ....	36,864.00
Young Electric Ltd. ....	34,778.00
Western Electrical Constructors Ltd. .... awarded	<b>33,741.00</b>

### MECHANICAL:

Meccon Installations Ltd. ....	87,850.00
Jamison and Kruger Co. Ltd. ....	86,500.00
C. R. Frost Co. Ltd. ....	85,957.00*
Mercier and Germaine Co. Ltd. ....	84,336.00
Economy Plumbing and Heating Co. Ltd. .... awarded	<b>80,738.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS**      **AMOUNT BID**

## **ERECTION AND COMPLETION OF THE HOME FOR THE AGED, SHERWOOD PARK. May 18th, 1961.**

### **GENERAL:**

The Foundation Co. of Canada Ltd. ....	118,508.00
Northgate Construction Co. Ltd. ....	115,944.00
Alta-West Construction Ltd. ....	107,750.00
Poole Construction Co. Ltd. .... awarded	<b>101,746.00</b>

### **ELECTRICAL:**

Commercial Electrical Co. (Edmonton) Ltd. ....	17,710.00
J. H. McKenzie Electrical Contractors Ltd. ....	16,883.00*
Industrial Power Installations Ltd. ....	15,970.00
Hillas Electric Co. Ltd. ....	15,800.00
Western Electrical Constructors Ltd. ....	15,064.00
Young Electric Ltd. ....	13,974.00
Johnson Brothers Electric Co. Ltd. .... awarded	<b>13,748.00</b>

### **MECHANICAL:**

C. R. Frost Co. Ltd. ....	46,607.00
B. A. Moir and Co. Ltd. ....	45,058.00
D. A. Wells Plumbing and Heating Ltd. ....	44,856.97
Jamison and Kruger Co. Ltd. ....	44,160.00
Accurate Plumbing Ltd. ....	43,833.00
Economy Plumbing and Heating Co. Ltd. ....	42,645.00
Meccon Installations Ltd. ....	42,398.00
Courtesy Plumbing Ltd. .... awarded	<b>41,980.00</b>

## **EXTENSION OF STORM SEWER, BOWDEN INSTITUTION, BOWDEN. May 25th, 1961.**

Conacher Construction Ltd. ....	26,550.00
Borger Brothers Ltd. ....	24,729.00
Wilson and Wilson Ltd. ....	22,376.00
Poole Construction Co. Ltd. ....	17,454.10
Mallett Contracting Co. Ltd. ....	16,895.00
N. S. Pawliuk and Son Contracting Ltd. .... awarded	<b>16,269.00</b>

## **EXTENSION OF GRADING, GRAVELLING AND PAVING, BOWDEN INSTITUTION, BOWDEN. May 25th, 1961.**

Border Paving Ltd. ....	23,835.50
Everall Engineering Ltd. .... awarded	<b>17,490.50</b>

## **EXTENSION OF GRADING, WALKS AND PAVING, DEERHOME INSTITUTION, RED DEER. May 25th, 1961.**

Poole Construction Co. Ltd. ....	25,635.00
Border Paving Ltd. ....	24,868.00
Everall Engineering Ltd. .... awarded	<b>21,463.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS**

## **AMOUNT BID**

PLASTERING AND LATHING IN OLD NURSES'  
RESIDENCE, PROVINCIAL MENTAL HOSPITAL,  
PONOKA. June 8th, 1961.

Vallette Brothers .....	8,396.60
C. Beckett & Co. (Edmonton) Ltd. ....	8,000.00
Sullivan & Stewart Plastering Contractors Co. Ltd. .... awarded	<b>7,840.00</b>

ERECTION AND COMPLETION OF THE  
RECREATION AND THERAPY BUILDING, DEER-  
HOME INSTITUTION, RED DEER. June 15th, 1961.

### GENERAL:

C. J. Oliver Ltd. ....	271,300.00
Commonwealth Construction Co. Ltd. ....	261,500.00
Poole Construction Co. Ltd. ....	243,300.00
P. W. Graham and Sons Ltd. ....	237,765.00
Northgate Construction Co. Ltd. .... awarded	<b>234,432.00</b>

### ELECTRICAL:

Star Electric .....	32,870.00
Young Electric Ltd. ....	28,839.00
Industrial Power Installations Ltd. ....	27,375.00
Western Electrical Constructors Ltd. .... awarded	<b>25,796.00</b>

### MECHANICAL:

Alberta Mechanical Contractors Ltd. ....	83,484.00
F. M. Hayhoe Plumbing and Heating Ltd. ....	79,467.00
Economy Plumbing and Heating Co. Ltd. ....	75,660.00
C. R. Frost Co. Ltd. .... awarded	<b>69,879.00</b>

ERECTION AND COMPLETION OF THE HOME FOR  
THE AGED, BOW VALLEY (CALGARY).  
June 15th, 1961.

### GENERAL:

Adderson Construction Ltd. ....	591,305.00
Sam Hashman and Co. Ltd. ....	573,000.00
Bird Construction Co. Ltd. ....	569,242.00
Alta-West Construction Ltd. ....	560,090.00
Borger Structures Ltd. ....	560,000.00
Northgate Construction Co. Ltd. ....	557,662.00
The Foundation Company of Canada Ltd. ....	529,648.00
McTavish, McKay and Co. Ltd. ....	515,872.00
Poole Construction Co. Ltd. .... awarded	<b>500,840.00</b>

### ELECTRICAL:

Eades Electric Ltd. ....	65,846.00
Johnson Brothers Electric Co. Ltd. ....	63,920.00
Warrack Electric Ltd. ....	63,600.00

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**CONTRACT TENDERED FOR AND TENDERERS**
**AMOUNT  
BID**

Midwest Electric .....	63,595.00
Dickie's Electric Ltd. .... awarded	<b>62,990.00</b>

**MECHANICAL:**

Joe Podetz Plumbing Ltd. ....	229,171.00
Snyder and Boon Ltd. ....	222,480.00
Parkdale Plumbing Co. Ltd. ....	219,200.00
Anderson Plumbing Co. Ltd. ....	214,800.00
Whitticks' Mechanical Contractors Ltd. ....	207,000.00
Fred Deeves and Sons Ltd. ....	198,738.00
A. J. Shrubsall and Co. Ltd. .... awarded	<b>177,405.00</b>

**EXTENSION OF WATER AND SEWER LINES, DEER-  
HOME INSTITUTION, RED DEER. June 22nd, 1961.**

Patrick Construction Co. Ltd. ....	26,691.00
Borger Brothers Ltd. ....	20,865.00
Burns & Dutton Concrete & Construction Co. Ltd. ....	18,947.00
Okelitch and McGinn .....	18,428.50
Poole Construction Co. Ltd. ....	17,390.00
Wilson and Wilson Ltd. .... awarded	<b>15,945.95</b>

**EXTENSION OF THE SEWAGE LAGOON,  
PROVINCIAL GAOL, CALGARY. June 22nd, 1961.**

Budd Brothers Ltd. .... awarded	<b>8,385.00</b>
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**GRADING, CURBING, WALKS AND GRAVELLING,  
PROVINCIAL AUXILIARY HOSPITAL, CLARESHOLM.  
June 22nd, 1961**

J. A. Moulson Construction Ltd. ....	32,748.00
Poole Construction Co. Ltd. ....	27,512.00
Lewis & Wilson Excavating Contractors Ltd. .... awarded	<b>24,722.75</b>

**GRADING, CURBING, WALKS AND PAVING,  
VARIOUS GOVERNMENT INSTITUTIONS,  
EDMONTON. June 22nd, 1961.**

Fraser & Rice Construction Ltd. ....	39,821.00
Nadon Paving Ltd. ....	34,793.90
O'Hanlon Paving Ltd. ....	29,861.70
Arthur A. Voice Construction Co. Ltd. ....	28,990.10
Crown Paving & Concrete Ltd. ....	28,916.40
Everall Engineering Ltd. .... awarded	<b>26,974.20</b>

# CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

SUPPLY AND INSTALLATION OF TILE, SUN  
BUILDING, EDMONTON. June 29th, 1961.

Empire Marble and Tile Ltd. ....	2,266.00
"Bob" Candido's Tile & Terrazzo Co. Ltd. ....	1,950.00
M. L. Reeson and Co. Ltd. .... awarded	<b>1,930.00</b>

SUPPLY AND INSTALLATION OF ONE ELECTRIC  
PASSENGER ELEVATOR, ETC., ARRANGEMENTS  
FOR ONE FUTURE PASSENGER ELEVATOR AND  
ALTERATIONS TO EXISTING FREIGHT ELEVATOR,  
PETROLEUM & GAS CONSERVATION BOARD,  
CALGARY. July 6th, 1961.

Turnbull Elevator of Canada Ltd. ....	39,457.00
T. E. Bate Engineering Ltd. ....	39,256.00
Otis Elevator Co. Ltd. ....	35,675.00
Peterson & Cowan Elevator Co. Ltd. .... awarded	<b>34,947.00</b>

EXTENSION OF WATER LINES AND STORM SEWERS,  
PROVINCIAL MENTAL INSTITUTE, OLIVER.  
July 20th, 1961.

Expert Ditchers Co. Ltd. ....	35,610.00
Poole Construction Co. Ltd. ....	28,714.60
Borger Brothers Ltd. ....	28,345.00
N. S. Pawliuk & Son. ....	23,402.00
Wilson and Wilson Ltd. .... awarded	<b>23,226.00</b>
Economy Plumbing and Heating Co. Ltd. ....	20,433.32*

GRADING, GRAVELLING, WALKS AND PAVING,  
VARIOUS GOVERNMENT INSTITUTIONS, CALGARY.  
July 20th, 1961.

Consolidated Concrete Ltd. ....	58,199.00
Gallelli and Sons Co. Ltd. ....	58,057.05
Borger Structures Ltd. ....	53,702.00
M. & S. Paving Ltd. .... awarded	<b>52,042.00</b>

SUPPLY AND INSTALLATION OF AN ELECTRIC OIL  
HYDRAULIC ELEVATOR IN GOVERNMENT GREEN-  
HOUSE, LEGISLATIVE BUILDING GROUNDS,  
EDMONTON. August 3rd, 1961.

Turnbull of Canada Ltd. ....	12,700.00
T. E. Bate Engineering Ltd. ....	12,680.00
Otis Elevator Co. Ltd. ....	11,630.00
Peterson & Cowan Elevator Co. Ltd. .... awarded	<b>11,242.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

SUPPLY AND INSTALLATION OF ONE ELECTRIC PASSENGER ELEVATOR AND ONE PLUNGER ELECTRIC PASSENGER ELEVATOR, ADMINISTRATION AND RECEPTION BUILDING, PROVINCIAL MENTAL HOSPITAL, PONOKA. August 17th, 1961.

Turnbull of Canada Ltd. ....	47,410.00
Otis Elevator Co. Ltd. ....	46,365.00
T. E. Bate Engineering Ltd. ....	43,800.00
Peterson & Cowan Elevator Co. Ltd. .... awarded	<b>42,379.00</b>

ERECTION AND COMPLETION OF THE HOME FOR THE AGED, LEGAL. August 24th, 1961.

## **GENERAL:**

McRae and Associates Construction Ltd. ....	116,000.00
Summit Construction Ltd. ....	117,526.00
Buchanan Construction & Engineering Co. Ltd. ....	113,412.00
Sturgeon Construction Ltd. ....	109,981.00
Alta-West Construction Co. Ltd. ....	109,816.00
Poole Construction Co. Ltd. .... awarded	<b>109,475.00</b>

## **ELECTRICAL:**

Crowle Electric Ltd. ....	13,978.00
Young Electric Ltd. .... awarded	<b>13,965.00</b>

## **MECHANICAL:**

J. P. Fitzgerald Ltd. ....	50,052.00
G. S. Villeneuve Ltd. ....	48,090.00
B. A. Moir and Co. Ltd. ....	46,990.00
Belley Plumbing and Heating Ltd. ....	46,000.00
C. R. Frost Co. Ltd. ....	44,626.00
Mercier and Germaine Co. Ltd. ....	43,968.00
Accurate Plumbing Ltd. ....	41,700.00
Economy Plumbing and Heating Co. Ltd. .... awarded	<b>41,668.00</b>

ERECTION AND COMPLETION OF THE HOME FOR THE AGED, VEGREVILLE. August 24th, 1961.

## **GENERAL:**

Buchanan Construction Co. Ltd. ....	114,091.00
Alta-West Construction Ltd. ....	110,937.00
Poole Construction Co. Ltd. ....	110,427.00
Camwil Construction Ltd. .... awarded	<b>107,000.00</b>

## **ELECTRICAL:**

Crowle Electric Ltd. ....	14,473.00
Young Electric Ltd. .... awarded	<b>14,359.00</b>

## **MECHANICAL:**

St. Paul Foundry Ltd. ....	47,385.00
G. S. Villeneuve Ltd. ....	46,890.00

CONTRACT TENDERED FOR AND TENDERERS	AMOUNT BID
B. A. Moir and Co. Ltd. -----	46,628.00
C. R. Frost Co. Ltd. -----	44,826.00
Mercier and Germaine Co. Ltd. -----	43,968.00
Joe's Plumbing and Heating Co. Ltd. -----	42,545.95
Economy Plumbing and Heating Co. Ltd. -----	41,797.00
Accurate Plumbing Ltd. -----	41,300.00
D. A. Wells Plumbing and Heating Ltd. ---- awarded	<b>41,000.00</b>

SUPPLY AND INSTALLATION OF TWO PASSENGER  
ELEVATORS FOR DORMITORIES No. 1 AND No. 4,  
PROVINCIAL MENTAL INSTITUTE, OLIVER.  
August 24th, 1961.

Turnbull of Canada Ltd. -----	38,650.00
T. E. Bate Engineering Ltd. -----	35,888.00
Otis Elevator Co. Ltd. -----	33,775.00
Peterson & Cowan Elevator Co. Ltd. ---- awarded	<b>32,431.00</b>

SUPPLY AND INSTALLATION OF ONE OIL  
HYDRAULIC PLATFORM LIFT, KITCHEN & BAKERY  
EXTENSION, PROVINCIAL MENTAL HOSPITAL,  
PONOKA. August 24th, 1961.

Turnbull of Canada Ltd. -----	5,740.00
Maher Elevator Service Ltd. -----	5,600.00
T. E. Bate Engineering Ltd. ----- awarded	<b>4,546.00</b>

EXTENSION OF SEWERS, UNIVERSITY OF ALBERTA,  
EDMONTON. September 7th, 1961.

Economy Plumbing and Heating Co. Ltd. -----	15,083.00
G. C. McLeod and Co. Ltd. -----	13,997.95
Wilson and Wilson Ltd. -----	13,419.25
Expert Ditchers Co. Ltd. ----- awarded	<b>12,418.00</b>

EXTENSION OF GRADING, CURBING, WALKS AND  
PAVING, UNIVERSITY OF ALBERTA, CALGARY.  
September 14th, 1961.

Standard Gravel and Surfacing of Canada Ltd. ----	128,164.85
Gallelli and Sons Co. Ltd. -----	116,648.45
Pioneer Paving Ltd. -----	109,361.45
M and S Paving Ltd. ----- awarded	<b>104,449.85</b>

SUPPLY AND INSTALLATION OF ONE ELECTRIC  
OILDRAGALIC PASSENGER ELEVATOR, INSTITUTE  
OF TECHNOLOGY AND ART, CALGARY.  
September 14th, 1961.

Otis Elevator Co. Ltd. -----	19,750.00
T. E. Bate Engineering Ltd. -----	17,400.00
Peterson & Cowan Elevator Co. Ltd. ---- awarded	<b>17,209.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

EXTENSION TO STEAM DISTRIBUTION SYSTEM,  
UNIVERSITY OF ALBERTA, EDMONTON.  
September 21st, 1961.

Meccon Installations Ltd. ....	397,893.00
The Foundation Company of Canada Ltd. ....	383,418.00
Lockerbie & Hole Western Ltd. ....	379,206.00
Poole Construction Co. Ltd. ....	364,705.00
Alta-West Construction Ltd. ....	339,499.00
Burns & Dutton Concrete & Construction Co. Ltd. ....	awarded <b>329,900.00</b>

ADDITION AND ALTERATIONS TO THE OIL AND  
GAS CONSERVATION BOARD BUILDING, CALGARY.  
September 21st, 1961.

## **GENERAL:**

Burns & Dutton Concrete & Construction Co. Ltd. ....	265,410.00
Borger Structures Ltd. ....	264,700.00
Northgate Construction Co. Ltd. ....	258,440.00
Poole Construction Co. Ltd. ....	247,400.00
Bennett & White Alberta Ltd. ....	awarded <b>244,884.00</b>

## **ELECTRICAL:**

Midwest Electric ....	57,950.00
Canadian Comstock Co. Ltd. ....	56,395.00
Industrial Power Installations Ltd. ....	52,825.00
Dickie's Electric Ltd. ....	awarded <b>47,987.00</b>

## **MECHANICAL:**

Lockerbie & Hole Western Ltd. ....	176,670.00
Fred Deeves and Sons Ltd. ....	174,584.00
Canadian Comstock Co. Ltd. ....	166,497.00
Parkdale Plumbing Co. Ltd. ....	awarded <b>162,650.00</b>

SUPPLY AND INSTALLATION OF PRECAST CON-  
CRETE FOR THE NORTHERN ALBERTA INSTITUTE  
OF TECHNOLOGY (PHASE I), EDMONTON.  
October 5th, 1961.

Con-Force Products Ltd. ....	awarded <b>758,000.00</b>
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ERECTION AND COMPLETION OF THE HEALTH  
SERVICES BUILDING, UNIVERSITY OF ALBERTA,  
EDMONTON. October 5th, 1961.

## **GENERAL:**

Stuart Olson Ltd. ....	164,861.00
Poole Construction Co. Ltd. ....	159,222.00
Bennett & White Alberta Ltd. ....	157,490.00

<b>CONTRACT TENDERED FOR AND TENDERERS</b>		<b>AMOUNT BID</b>
Camwil Construction Ltd. ....	156,000.00	
Forest Construction Ltd. ....	155,296.00	
P. W. Graham and Sons Ltd. ....	154,186.00	
Alta-West Construction Ltd. ....	150,886.00	
The Foundation Company of Canada Ltd. ....	148,598.00	
Universal Construction Co. Ltd. ....	145,973.00	
Platten Brothers Construction Ltd. ....	142,734.00	
Ray Poissant Construction Ltd. .... awarded	<b>141,385.00</b>	

**ELECTRICAL:**

Johnson Brothers Electric Co. Ltd. ....	19,191.00	
Crowle Electric Ltd. ....	19,152.00	
Young Electric (1961) Ltd. ....	18,996.00	
Wirtanen Electric Co. Ltd. ....	18,749.00	
The Tide Co. Ltd. ....	18,733.00	
Sunley Electric Ltd. ....	18,726.00	
Progress Electric Ltd. ....	18,265.00	
Canadian Comstock Co. Ltd. ....	18,250.00	
Western Electrical Constructors Ltd. ....	17,943.00	
Industrial Power Installations Ltd. ....	17,757.00	
Hillas Electric Co. .... awarded	<b>17,700.00</b>	

**MECHANICAL:**

D. A. Wells Plumbing and Heating Ltd. ....	57,979.00	
Carse, Anderson Ltd. ....	56,068.00	
Economy Plumbing and Heating Co. Ltd. ....	55,288.00	
Mercier and Germaine Co. Ltd. ....	53,564.00	
Meccon Installations Ltd. ....	52,925.00	
C. R. Frost Co. Ltd. ....	51,366.00	
Jamison and Kruger Co. Ltd. ....	51,300.00	
Jasper Plumbing and Heating ....	51,149.00	
B. A. Moir and Co. Ltd. ....	50,547.00	
Industrial Power Installations Ltd. ....	49,770.00	
The Bay Company Ltd. .... awarded	<b>49,444.00</b>	

**INSTALLATION OF SEWERS, NORTHERN ALBERTA  
INSTITUTE OF TECHNOLOGY, EDMONTON.**

October 12th, 1961.

Arthur A. Voice Construction Co. Ltd. ....	56,194.65	
Conacher Construction Ltd. .... awarded	<b>49,105.75</b>	

**SUPPLY OF A CATERING SERVICE FOR THE  
CAFETERIA IN THE TERRACE BUILDING,  
EDMONTON. October 19th, 1961.**

Highways Building Cafeteria Ltd. .... awarded	<b>3,900.00</b>	
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**SUPERSTRUCTURE OF A PACKING AND STORAGE  
SHED, HORTICULTURAL STATION, BROOKS.  
October 26th, 1961.**

Wilson Arch Buildings, Brooks .... awarded	<b>3,013.51</b>	
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# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

INSTALLATION OF SEWER AND WATER LINES,  
HOME FOR THE AGED, JACQUES SITE (CALGARY).  
November 2nd, 1961.

Expert Ditchers Co. Ltd. ....	63,476.30
Poole Construction Co. Ltd. ....	61,035.95
Burns & Dutton Concrete & Construction Co. Ltd....	60,027.00
Ed's Excavating .....	58,233.05
Borger Brothers Ltd. .... awarded	<b>47,099.75</b>

SUPPLY AND INSTALLATION of a PREFABRICATED  
STEEL BUILDING, COMMUNITY COLLEGE,  
FAIRVIEW. November 2nd, 1961.

Armco Drainage and Metal Products of Canada Ltd. ....	85,101.00
MBS Building and Supplies Ltd. ....	71,801.00
Permasteel (Alberta) Ltd. .... awarded	<b>67,208.00</b>

ERECTION AND COMPLETION OF A SNOW PLOW  
SHED, VALLEYVIEW. November 9th, 1961.

Norman Nilsen Construction Ltd. ....	47,489.00
Van Vliet Construction Co. Ltd. ....	41,360.00
Poole Construction Co. Ltd. ....	41,295.00
P. W. Graham and Sons Ltd. ....	39,616.00
W. J. Bennett Contractors Ltd. ....	38,614.00
McRae and Associates Construction Ltd. ... awarded	<b>38,482.00</b>

ERECTION AND COMPLETION OF A SNOW PLOW  
SHED, ATHABASCA. November 9th, 1961.

S. Radkewich Construction .....	75,000.00
Athacon Builders Ltd. ....	63,487.00
Poole Construction Co. Ltd. ....	54,870.00
Van Vliet Construction Co. Ltd. ....	54,412.00
Norman Nilsen Construction Ltd. ....	53,680.00
New West Construction Co. Ltd. ....	52,662.00
W. J. Bennett Contractors Ltd. ....	52,345.00
P. W. Graham and Sons Ltd. ....	52,055.00
Flato and Maro Construction Ltd. ....	51,614.00
McRae and Associates Construction Ltd. ....	50,242.00
Camwil Construction Ltd. .... awarded	<b>48,331.00</b>

ERECTION AND COMPLETION OF A SNOW PLOW  
SHED, ROCKY MOUNTAIN HOUSE. November 9th, 1961.

Poole Construction Co. Ltd. ....	45,780.00
New West Construction Co. Ltd. ....	44,204.00
Orris T. Challand .... awarded	<b>42,700.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS      AMOUNT BID**

## **ERECTION AND COMPLETION OF A SNOW PLOW SHED, ST. PAUL. November 9th, 1961.**

Bird Construction Co. Ltd. -----	53,758.00
Poole Construction Co. Ltd. -----	52,550.00
P. W. Graham and Sons Ltd. -----	50,420.00
Summit Construction Ltd. -----	49,952.00
Flato and Maro Construction Ltd. ----- awarded	<b>47,445.00</b>

## **ERECTION AND COMPLETION OF A HIGHWAY MAINTENANCE SHOP, GRIMSHAW. November 9th, 1961.**

Lahey Construction Ltd. -----	78,324.00
Flato and Maro Construction Ltd. -----	74,889.00
Norman Nilsen Construction Ltd. -----	69,878.00
W. J. Bennett Contractors Ltd. -----	63,553.00
Camwil Construction Ltd. -----	61,705.00
Poole Construction Co. Ltd. -----	60,675.00
Van Vliet Construction Co. Ltd. -----	60,506.00
McRae and Associates Construction Ltd. ----- awarded	<b>59,945.00</b>

## **ERECTION AND COMPLETION OF A HIGHWAY MAINTENANCE SHOP, MEDICINE HAT. November 9th, 1961.**

Bird Construction Co. Ltd. -----	57,900.00
Oland Construction (1959) Ltd. -----	55,930.00
Poole Construction Co. Ltd. -----	55,746.00
F. Wahl Construction Ltd. -----	53,937.00
Johnson Construction Co. Ltd. -----	50,400.00
D. H. Oland Ltd. -----	47,900.00
Stober and Maerz Construction Co. ----- awarded	<b>45,483.00</b>

## **ERECTION AND COMPLETION OF A SNOW PLOW SHED, WARNER. November 9th, 1961.**

Cunningham and Shannon Ltd. -----	33,998.50
Adam Schamber Construction -----	28,410.00*
Bird Construction Co. Ltd. -----	27,900.00
Cooper Construction Ltd. ----- awarded	<b>25,084.00</b>

## **ERECTION AND COMPLETION OF A SNOW PLOW SHED, WARBURG. November 9th, 1961.**

Poole Construction Co. Ltd. -----	35,050.00
P. W. Graham and Sons Ltd. -----	33,040.00
New West Construction Co. Ltd. -----	32,139.00
McRae and Associates Construction Ltd. -----	31,188.00
Camwil Construction Ltd. -----	30,756.00
Flato and Maro Construction Ltd. ----- awarded	<b>29,203.00</b>
J. P. Illerbrun Construction -----	23,926.00*

# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

ERECTION AND COMPLETION OF THE EDUCATION  
BUILDING, UNIVERSITY OF ALBERTA, EDMONTON.  
November 30th, 1961.

## **GENERAL:**

Perini (Western) Ltd. ....	3,219,589.00
Commonwealth Construction Ltd. ....	3,205,000.00
Bennett & White Alberta Ltd. ....	3,088,200.00
McNamara Construction .....	3,053,200.00
Bird Construction Co. Ltd. ....	3,023,093.00
Christensen and MacDonald Ltd. ....	3,009,003.00
The Foundation Company of Canada Ltd. ....	2,987,613.00
Poole Construction Co. Ltd. ....	2,896,740.00
Burns & Dutton Concrete & Construction Co. Ltd. ....	awarded <b>2,841,000.00</b>

## **ELECTRICAL:**

Univex Electrical Construction and Engineering Ltd. ....	496,880.00
Hume and Rumble Ltd. ....	491,590.00
Johnson Brothers Electric Co. Ltd. ....	505,187.00
Wirtanen Electric Co. Ltd. ....	477,349.00
Sunley Electric Ltd. ....	477,177.00
Industrial Power Installations Ltd. ....	475,211.00
Canadian Comstock Co. Ltd. ....	457,205.00
Young Electric (1961) Ltd. ....	awarded <b>436,760.00</b>

## **MECHANICAL:**

The Bay Company Ltd. ....	1,070,939.00
Carse, Anderson Ltd. ....	1,063,000.00
C. R. Frost Co. Ltd. ....	1,056,785.00
Lockerbie & Hole Western Ltd. ....	1,037,318.00
Canadian Comstock Co. Ltd. ....	1,023,912.00
Haddow and Maughan Ltd. ....	awarded <b>1,013,000.00</b>
Economy Plumbing and Heating Co. Ltd. ....	931,806.00*

ERECTION AND COMPLETION OF THE NORTHERN  
ALBERTA INSTITUTE OF TECHNOLOGY (PHASE I),  
EDMONTON. December 21st, 1961.

## **GENERAL:**

Forest Construction Ltd. ....	1,583,305.00
Bird Construction Co. Ltd. ....	1,506,328.00
Burns & Dutton Concrete & Construction Co. Ltd. ....	1,483,400.00
McNamara Construction Western Ltd. ....	1,456,302.00
Poole Construction Co. Ltd. ....	1,444,444.00
Bennett & White Alberta Ltd. ....	1,361,300.00
The Foundation Company of Canada Ltd. ....	awarded <b>1,360,822.00</b>

## CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

### ELECTRICAL:

Hillas Electric Co. Ltd. _____	388,000.00
Western Electrical Constructors Ltd— Johnson Brothers Electric Co. Ltd., A Joint Bid _____	363,366.00
Canadian Comstock Co. Ltd. _____	343,000.00
Young Electric Ltd. _____	339,760.00
Hume & Rumble Ltd. _____ awarded	<b>325,405.00</b>

### MECHANICAL:

Carse, Anderson Ltd. _____	825,730.00
Waterman-Waterbury Manufacturing Co. Ltd. _____	683,470.00
Lockerbie & Hole Western Ltd. _____	657,467.00
C. R. Frost Co. Ltd. _____	636,800.00
Mecon Installations Ltd. _____	620,926.00
Canadian Comstock Co. Ltd. _____ awarded	<b>610,960.00</b>

## ERECTION AND COMPLETION OF THE ADMINISTRATION AND RECEPTION BUILDING, PROVINCIAL MENTAL HOSPITAL, PONOKA.

December 28th, 1961.

### GENERAL:

Universal Construction Co. Ltd. _____	1,309,072.00
Bennett & White Alberta Ltd. _____	1,247,000.00
Perini (Western) Ltd. _____	1,231,257.00
McNamara Construction Western Ltd. _____	1,228,415.00
Commonwealth Construction Co. Ltd. _____	1,223,153.00
Bird Construction Co. Ltd. _____	1,196,953.00
Alta-West Construction Ltd. _____	1,185,621.00
The Foundation Company of Canada Ltd. _____	1,158,716.00
Northgate Construction Co. Ltd. _____	1,149,421.00
Poole Construction Co. Ltd. _____	1,133,810.00
Burns & Dutton Concrete & Construction Co. Ltd. _____ awarded	<b>1,120,000.00</b>

### ELECTRICAL:

Hume & Rumble Ltd. _____	159,975.00
Canadian Comstock Co. Ltd. _____	159,954.00
Wilf Got Electric Ltd. _____	150,440.00
Wirtanen Electric Co. Ltd. _____	147,777.00
Industrial Power Installations Ltd. _____ awarded	<b>147,741.00</b>

### MECHANICAL:

Parkdale Plumbing Co. Ltd. _____	548,000.00
Lockerbie & Hole Western Ltd. _____	528,321.00
Canadian Comstock Co. Ltd. _____	526,826.00
Carse, Anderson Ltd. _____	511,655.00
B. A. Moir & Co. Ltd. _____	506,515.00
C. R. Frost Co. Ltd. _____ awarded	<b>483,985.00</b>

# **CONTRACT TENDERED FOR AND TENDERERS** **AMOUNT BID**

TILE AND TERRAZZO WORK IN THE DINING HALL  
AND NURSES' RESIDENCE, PROVINCIAL MENTAL  
HOSPITAL, PONOKA. January 11th, 1962.

M. L. Reeson and Co. Ltd. ....	10,960.00
Columbia Tile and Terrazzo Ltd. ....	10,620.00
Empire Marble and Tile Ltd. ....	10,200.00
"Bob" Candido's Tile and Terrazzo Co. Ltd. .... awarded	<b>9,950.00</b>

SUPPLY AND INSTALLATION OF TILE WORK,  
PROVINCIAL GAOL, LETHBRIDGE.  
January 18th, 1962.

Capri Marble and Tile Co. ....	9,500.00
Flesher Marble and Tile Ltd. ....	9,170.00
Lethbridge Monumental and Tile Works Ltd. .... awarded	<b>4,990.00</b>

SUPPLY AND INSTALLATION OF ACOUSTICAL GRID  
SYSTEM TO THE CEILING OF THE HIGHWAY  
MAINTENANCE SHOP, RED DEER. January 25th, 1962.

Dominion Sound Equipment Ltd. ....	3,830.00
Western Asbestos (Alberta) Ltd. .... awarded	<b>3,804.00</b>
F. Drexel Co. Ltd. ....	2,979.00*

ERECTION AND COMPLETION OF A HIGHWAY  
STORAGE SHED, GRIMSHAW. January 25th, 1962.

McNamara Construction Western Ltd. ....	29,107.00
Universal Construction Co. Ltd. ....	20,424.00
New West Construction Ltd. ....	20,092.00
Lahey Construction Ltd. ....	18,446.00
Piggot Construction Ltd. ....	17,899.00
Camwil Construction Ltd. ....	17,000.00
Sturgeon Construction Ltd. ....	16,899.00
Byrnes and Hall Construction Ltd. ....	16,826.00
Van Vliet Construction Co. Ltd. ....	16,427.00
McRae and Associates Construction Ltd. ....	16,400.00
St. Laurent Construction Ltd. .... awarded	<b>15,947.00</b>

SUPPLY AND INSTALLATION OF THREE GEARLESS  
PASSENGER ELEVATORS AND ONE PLUNGER  
ELECTRIC SIDEWALK ELEVATOR AND ONE  
PLUNGER ELECTRIC ELEVATOR, EDUCATION  
BUILDING, UNIVERSITY OF ALBERTA, EDMONTON.  
January 25th, 1962.

Turnbull of Canada Ltd. ....	198,420.00
Otis Elevator Co. Ltd. .... awarded	<b>189,935.00</b>

<b>CONTRACT TENDERED FOR AND TENDERERS</b>	<b>AMOUNT BID</b>
--	-----------------------

SUPPLY AND INSTALLATION OF PRECAST  
CONCRETE FOR THE NORTHERN ALBERTA  
INSTITUTE OF TECHNOLOGY (PHASE II),  
EDMONTON. January 25th, 1962.

Con-Force Products Ltd. ....	awarded <b>432,700.00</b>
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SUPPLY AND INSTALLATION OF ONE OIL  
HYDRAULIC PASSENGER ELEVATOR, DORMITORY  
No. 3, PROVINCIAL MENTAL INSTITUTE, OLIVER.  
February 8th, 1962.

Turnbull of Canada Ltd. ....	19,925.00
T. E. Bate Engineering Ltd. ....	17,800.00
Peterson & Cowan Elevator Co. Ltd. ....	15,396.00
Otis Elevator Co. Ltd. ....	awarded <b>15,195.00</b>

ERECTION AND COMPLETION OF THE HOME FOR  
THE AGED, JACQUES SITE (CALGARY).  
February 8th, 1962.

**GENERAL:**

Poole Construction Co. Ltd. ....	849,000.00
McNamara Construction Western Ltd. ....	826,532.00
Alta-West Construction Ltd. ....	818,758.00
Borger Structures Ltd. ....	815,800.00
Commonwealth Construction Co. Ltd. ....	806,230.00
Bennett & White Alberta Ltd. ....	awarded <b>788,742.00</b>

**ELECTRICAL:**

Johnson Brothers Electric Co. Ltd. ....	104,950.00
Midwest Electric ....	88,245.00
Warrack Electric Ltd. ....	86,300.00
Dickie's Electric Ltd. ....	awarded <b>82,859.00</b>

**MECHANICAL:**

Meccon Installations Ltd. ....	307,703.00
Anderson Plumbing Co. Ltd. ....	293,000.00
Whitticks' Mechanical Contractors Ltd. ....	279,580.00
Fred Deeves and Sons Ltd. ....	279,174.00
Snyder and Boon Ltd. ....	276,800.00
A. J. Shrubsall and Co. Ltd. ....	266,000.00
Parkdale Plumbing Co. Ltd. ....	265,000.00
Economy Plumbing and Heating Co. Ltd. ....	awarded <b>250,341.00</b>

ERECTION AND COMPLETION OF AN OFFICE  
BUILDING FOR THE DEPARTMENT OF LANDS AND  
FORESTS, SLAVE LAKE. February 22nd, 1962.

McRae and Associates Construction Ltd. ....	53,964.00
Athacon Builders Ltd. ....	53,717.27

CONTRACT TENDERED FOR AND TENDERERS	AMOUNT BID
Camwil Construction Ltd. ....	53,356.00
Universal Construction Co. Ltd. ....	52,978.00
S. Radkevich Construction .....	51,175.00
Watson (Tofield) Ltd. ....	51,149.00
St. Laurent Construction Ltd. ....	50,841.00
Poole Construction Co. Ltd. ....	50,671.00
New West Construction Co. Ltd. ....	50,247.00
Stuart Olson Ltd. ....	49,704.00
Summit Construction Ltd. ....	49,649.00
Forest Construction Ltd. ....	47,340.00
W. J. Bennett Contractors Ltd. ....	46,638.00
Sturgeon Construction Ltd. .... awarded	<b>46,300.00</b>

SUPPLY AND INSTALLATION OF WATER LINES,  
UNIVERSITY OF ALBERTA, CALGARY.  
March 1st, 1962.

Poole Construction Co. Ltd. ....	12,423.00
Borger Bros. Ltd. ....	9,502.50
Burns & Dutton Concrete & Construction Co. Ltd. .... awarded	<b>8,670.00</b>

ERECTION AND COMPLETION OF DORMITORY No.  
4, PROVINCIAL AUXILIARY HOSPITAL,  
CLARESHOLM. March 8th, 1962.

GENERAL:

Commonwealth Construction Co. Ltd. ....	167,400.00
Bird Construction Co. Ltd. ....	164,622.00
Borger Structures Ltd. ....	162,940.00
C. J. Oliver Ltd. ....	162,000.00
Poole Construction Co. Ltd. ....	155,000.00
Northgate Construction Co. Ltd. ....	153,944.00
Burns & Dutton Concrete and Construction Co. Ltd. .... awarded	<b>151,900.00</b>

ELECTRICAL:

Stancer Electric Ltd. ....	26,750.00
Dickie's Electric Ltd. ....	24,280.00
Canadian Comstock Co. Ltd. ....	23,992.00
Wirtanen Electric Co. Ltd. ....	22,756.00
Lethbridge Electric Ltd. ....	22,675.00
Pink and Chiste Electric ....	22,190.00
Parsons Commercial Electric Ltd. ....	20,968.00
Wilf Got Electric (Calgary) Ltd. .... awarded	<b>20,790.00</b>

MECHANICAL:

J. W. Dobson Plumbing Ltd. ....	99,810.00
Lockerbie & Hole Western Ltd. ....	87,321.00
Fred Deeves and Sons Ltd. ....	86,000.00
Parkdale Plumbing Co. Ltd. ....	83,195.00
G. H. Baxter and Son Ltd. ....	80,335.00
Whittick's Mechanical Contractors Ltd. .... awarded	<b>75,000.00</b>

## CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

### ERECTION AND COMPLETION OF THE NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY (PHASE II), EDMONTON. March 8th, 1962.

#### GENERAL:

Universal Construction Co. Ltd. ....	1,183,000.00
Bennett & White Alberta Ltd. ....	1,120,000.00
Perini (Western) Ltd. ....	1,099,217.00
Bird Construction Co. Ltd. ....	1,071,000.00
Burns & Dutton Concrete & Const. Co. Ltd. ....	1,065,000.00
McNamara Construction Western Ltd. ....	1,061,809.00
Christensen and MacDonald Ltd. ....	1,051,656.00
Poole Construction Co. Ltd. ....	1,051,452.00
The Foundation Co. of Canada Ltd. .... awarded	<b>1,020,470.00</b>

#### ELECTRICAL:

Hume and Rumble Ltd. ....	347,580.00
Wirtanen Electric Co. Ltd. ....	323,700.00
Young Electric (1961) Ltd. ....	321,937.00
Canadian Comstock Co. Ltd. .... awarded	<b>302,582.00</b>

#### MECHANICAL:

Carse, Anderson Ltd. ....	659,251.00
Mecon Installations Ltd. ....	639,936.00
Lockerbie & Hole Western Ltd. ....	606,320.00
Canadian Comstock Co. Ltd. .... awarded	<b>604,463.00</b>

### SUPPLY AND INSTALLATION OF MISCELLANEOUS STRUCTURAL STEEL, PROVINCIAL GAOL, CALGARY, March 15th, 1962.

Dominion Bridge Co. Ltd. .... awarded	<b>8,796.00</b>
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### GRADING, WALKS AND PAVING, HOME FOR THE AGED, BOW VALLEY (CALGARY). March 22nd, 1962.

Poole Construction Co. Ltd. ....	44,423.25
Burns & Dutton Concrete & Construction Co. Ltd. ....	40,939.00
Pioneer Paving Ltd. ....	39,779.05
Everall Construction Ltd. ....	38,573.50
Gallelli and Sons Co. Ltd. ....	37,711.62
M and S Paving Ltd. .... awarded	<b>37,582.80</b>

# **TENDERS CALLED ON BEHALF OF THE ALBERTA LIQUOR CONTROL BOARD**

<b>CONTRACT TENDERED FOR AND TENDERERS</b>	<b>AMOUNT BID</b>
<b>ERECTION AND COMPLETION OF A LIQUOR STORE, BRETON, ALBERTA. April 20th, 1961.</b>	
H. Weikum Construction Ltd. ....	33,097.00
MacCalder Construction Co. Ltd. ....	31,125.00
Poole Construction Co. Ltd. ....	30,460.00
Parkins Construction Ltd. ....	29,600.00
Summit Construction Ltd. ....	28,683.00
Eriden Construction Ltd. ....	28,336.00
Camwil Construction Ltd. ....	28,309.00
New West Construction Co. Ltd. .... awarded	<b>27,983.00</b>

## **ERECTION AND COMPLETION OF A LIQUOR STORE, PONOKA, ALBERTA. April 20th, 1961.**

Poole Construction Co. Ltd. ....	41,720.00
H. Weikum Construction Ltd. ....	41,676.00
R-B Construction Ltd. ....	39,504.00
Camwil Construction Ltd. ....	38,729.00
New West Construction Co. Ltd. ....	38,680.00
Bakgaard Construction Co. Ltd. ....	37,700.00
Ellis Construction Ltd. .... awarded	<b>36,256.00</b>

## **ERECTION AND COMPLETION OF A LIQUOR STORE, WATERTON, ALBERTA. April 20th, 1961.**

L. R. (Les) Cunningham ....	47,940.00
Chisholm & Morrice Construction ....	46,849.00*
Bird Construction Co. Ltd. ....	45,738.00
Southern Alberta Construction Ltd. ....	44,445.00
Bakgaard Construction Co. Ltd. ....	43,850.00
Davis Construction .... awarded	<b>40,942.00</b>
Holte & Nordlund ....	38,272.00*

## **ERECTION AND COMPLETION OF A LIQUOR STORE, ROCKY MOUNTAIN HOUSE, July 20th, 1961**

W. R. Sandquist Construction Ltd. ....	56,870.00
C. J. Oliver Ltd. ....	53,200.00
W. J. Bennett Contractors Ltd. ....	51,867.00
Bakgaard Construction Co. Ltd. ....	51,840.00
McRae & Associates Construction Ltd. ....	51,000.00
Riverglen Construction Co. Ltd. ....	50,723.00
Bird Construction Co. Ltd. ....	49,998.00
New West Construction Co. Ltd. .... awarded	<b>48,300.00</b>

## CONTRACT TENDERED FOR AND TENDERERS AMOUNT BID

REMOVAL AND DEMOLITION OF THREE  
BUILDINGS IN CALGARY—ONE FRAME DWELLING,  
ONE BRICK WAREHOUSE AND ONE TWO-STALL  
GARAGE. July 20th, 1961.

Nor-West Demolition -----awarded A.L.C.B. to pay **940.00**

### ERECTION AND COMPLETION OF A LIQUOR STORE, FOREMOST, ALBERTA. July 27, 1961.

Little Chief Construction Ltd. -----	39,430.00
Stober and Maerz Construction Co. -----	35,070.00
Cooper Construction Ltd. -----	34,593.00
Getkate Masonry Construction Ltd. -----	32,874.00
Richard Osterberg -----	32,122.00*
Johnson Construction Co. Ltd. -----	31,950.00
Bird Construction Co. -----awarded	<b>30,453.00</b>
Tomasz Strzeszkowski -----	27,874.00*

### ERECTION AND COMPLETION OF A LIQUOR STORE, FORESTBURG, ALBERTA. August 3rd, 1961.

Riverglen Construction Co. Ltd. -----	38,158.00
G. H. Roberts Construction Ltd. -----	38,018.00
W. J. Bennett Contractors Ltd. -----	37,237.00
C. Burrows Construction Ltd. -----	36,544.00
Camwil Construction Ltd. -----awarded	<b>34,683.00</b>

### ALTERATIONS TO LIQUOR STORE, LLOYDMINSTER, ALBERTA. August 10th, 1961.

Lance Construction Ltd. -----	28,234.00
New West Construction Co. Ltd. -----	24,690.00
Buchanan Construction & Engineering Co. Ltd. -----awarded	<b>22,304.00</b>

### ERECTION AND COMPLETION OF A LIQUOR STORE, WAINWRIGHT, ALBERTA. August 31st, 1961.

Ray Poissant Construction Ltd. -----	28,916.00
Summit Construction Ltd. -----	24,827.00
Lance Construction Ltd. -----	22,860.00
Prism Construction Co. Ltd. -----	20,763.00
Sturgeon Construction Ltd. -----	20,357.00
Briden Construction Ltd. -----awarded	<b>19,980.00</b>

## HOMES FOR THE AGED

The programme for constructing Homes for the Aged was continued this year with thirty-four Homes completed at the following "rural" locations:

Athabasca	Mayerthorpe
Barrhead	Medicine Hat
Berwyn	Olds
Bonnyville	Pincher Creek
Bow Island	Ponoka
Brooks	Raymond
Camrose	Rocky Mountain House
Cardston	St. Paul
Drumheller	Sherwood Park
Edson	Spirit River
Fort Macleod	Stettler
High Prairie	Stony Plain
High River	Three Hills
Innisfail	Vermilion
Lacombe	Viking
Lethbridge	Westlock
Lloydminster	Wetaskiwin

In addition, multi-building projects were undertaken at the following points:

Calgary—Bow Valley  
Jacques Site

Edmonton—Belvedere  
Elmwood  
McQueen  
Rosslyn

Each "rural" Home is designed to accommodate fifty active elderly people.

The Government bears the total cost of construction and furnishing, including furniture, bedding, kitchen and dining room wares and equipment, towels, janitor equipment; everything necessary for the proper operation of these Homes.

The Homes are constructed on acceptable lands provided by the municipalities in the areas where they are located. The Homes when completed were turned over to the municipalities which will maintain and manage the Homes.

The basic idea of the final plan is the result of a province-wide competition which invited all residents of Alberta to submit sketch plans. The accepted sketch plan featured a "U" shaped single storey

structure with an enclosed court yard between the arms of the "U". The bottom of the "U" contains:

1. A large visitors' room, where residents meet visiting friends and relatives, and a large library. Both of these rooms are located at either side of the main entrance, well lighted with full height windows.

2. A large and bright lounge facing west or south-west at most localities. This room is furnished with sofas and chairs arranged in small groups where the occupants may gather and entertain themselves or watch the burning logs in the large fireplace.

3. The room adjacent to the lounge is the dining room where the guests will be served by the staff. The dining room and lounge are divided by a 20 feet wide by 61 feet long hall which can be used for concerts, stage plays, etc.

4. The kitchen is completely equipped for every need. It contains a large walk-in cooler, a pump operated stainless steel dish washing unit, and a gas range. The kitchen is located along the service corridor with direct entrance from outside.

The legs of the "U" contain the single and double bedrooms. There are nine double and seven single bedrooms in each wing. Each bedroom has a private washroom equipped with washbasin, toilet and medicine cabinet. There is also a bathroom, shower room, janitor's room, and a day room opening into the courtyard in each wing. Total square footage of the main floor is approximately 13,000.

The basement is of reinforced concrete wall and wood joists except over the boiler room and locker room which is reinforced concrete slab. Walls are wood and concrete blocks. The floors are scaled concrete, slab reinforced.

Included are a locker room with fifty-one large lockers where personal belongings can be stored and a storage room which can be converted into a workshop eventually. The total area of the basement is 1,900 square feet.

The construction of the building is built-over crawl space. The roof is a low pitched build-up roof on 2 inches thick insulation deck. The interior finish of walls and ceiling is gypsum lath and plaster. Acoustic tile fields cover the ceiling in the dining room and lounge. Another feature of the dining room lounge, occupational therapy room, library and visitors' room, and kitchen is that no ceiling joists have been installed, thus creating a feeling of spaciousness when entering these rooms. Floor tile and sheet linoleum have been used throughout the entire building except in shower room where ceramic tile was installed. In colouring of rooms, pastel colours have been selected for quiet appearance. The same principle was applied when selecting drapes and carpets for the home.

The exterior finish is predominantly stucco. In selecting a stucco finish, economy and ease of maintenance were the deciding factors since some of the homes, especially in rural areas, may lack skilled labour for

repair and replacement of some other type of finish. Cedar siding has also been installed, mainly at main entrance and on exterior walls of lounge, dining room and bedroom wings.

The courtyard is enclosed by a fence providing complete privacy for residents. It is completely landscaped, lawn surfaces extending the full length and width. Concrete slab walks connect the entrances, the day rooms, the occupational therapy room, and the gravelled patios. All around the courtyard perennial plants and shrubs will be planted to provide a homelike and quiet atmosphere.

Mechanical services for the homes include a hot water heating system, a ventilation system, an exhaust system from certain areas and all plumbing services.

In all the bedrooms heating is from hot water radiation fin vectors, pneumatically controlled by thermostats.

In the lounge, the library, the office, the waiting room and the corridors, a fin vector radiation system is used with supply air brought from the ventilation unit.

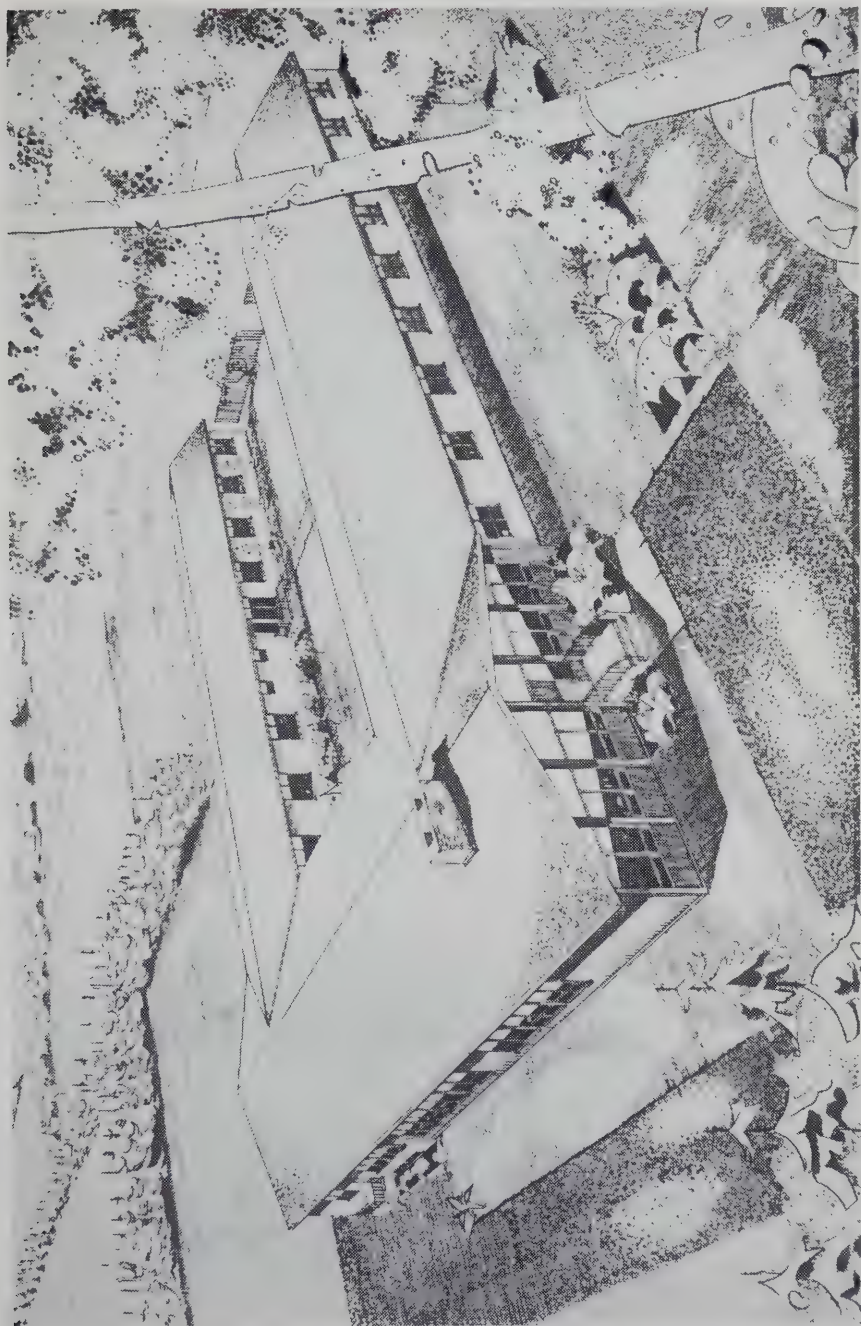
Exhaust from the kitchen, washrooms and laundry room is via separate multi-speed exhaust fans, some automatically and some manually controlled.

Complete self-contained refrigeration and freezer units are utilized in each home. Each home contains a large kitchen, completely equipped.

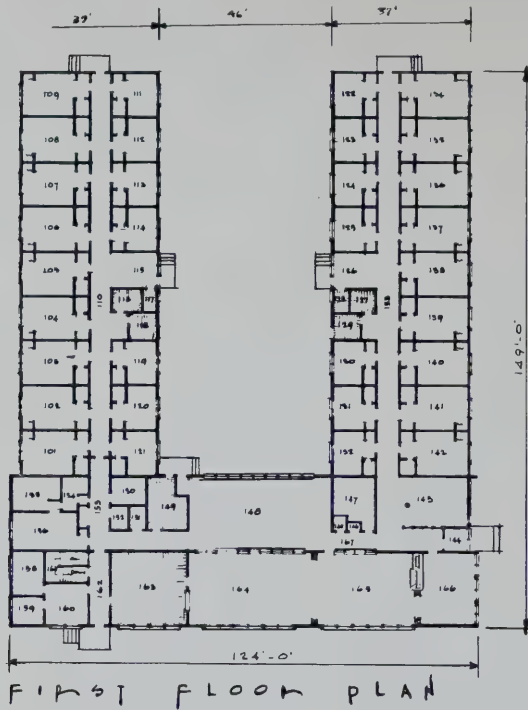
Natural gas or propane gas is utilized for all gas burning equipment which includes the boiler, the hot water heating tank, the kitchen stove and oven and miscellaneous equipment.

All controls such as valves, thermostats, ventilation machine controls, boiler controls and hot water heating system are controlled by automatic pneumatic control system with manual controls incorporated.

Hot water for domestic use is obtained from a hot water heater supplying hot water to all washrooms and the kitchen.



*Home for the Aged*



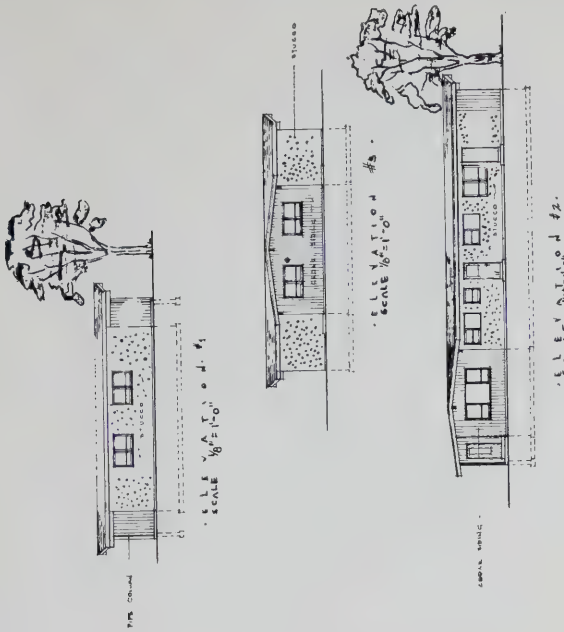
## LIST OF ROOMS

## BASEMENT

- 001 boiler room
- 002 lockers
- 003 truck office
- 004 storeroom
- 005 food storage
- 006 stairs

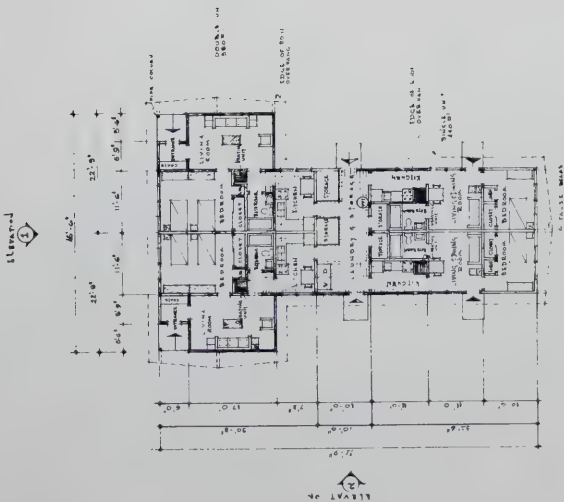
## FIRST FLOOR

- |                    |                    |                          |
|--------------------|--------------------|--------------------------|
| 101 double bedroom | 122 single bedroom | 145 visitor's lavatory   |
| 102 double bedroom | 123 single bedroom | 146 telephone booth      |
| 103 double bedroom | 124 single bedroom | 147 office               |
| 104 double bedroom | 125 single bedroom | 148 occupational health  |
| 105 double bedroom | 126 day room       | 149 laundry              |
| 106 double bedroom | 127 shower room    | 150 linen storage        |
| 107 double bedroom | 128 janitor room   | 151 staff's lavatory     |
| 108 double bedroom | 129 bath room      | 152 mail room            |
| 109 double bedroom | 130 single room    | 153 corridor             |
| 110 double bedroom | 131 single room    | 154 matron's bathroom    |
| 111 single bedroom | 132 single room    | 155 bedroom (matron's)   |
| 112 single bedroom | 133 corridor       | 156 matron's living room |
| 113 single bedroom | 134 double bedroom | 157 janitor's storage    |
| 114 single bedroom | 135 double bedroom | 158 storage              |
| 115 day room       | 136 double bedroom | 159 lockers              |
| 116 shower room    | 137 double bedroom | 160 staff lounge         |
| 117 janitor room   | 138 double bedroom | 161 stairs               |
| 118 bath room      | 139 double bedroom | 162 corridor             |
| 119 single bedroom | 140 double bedroom | 163 kitchen              |
| 120 single bedroom | 141 double bedroom | 164 dining room          |
|                    | 142 double bedroom | 165 lounge               |
|                    | 143 visitor's room | 166 library              |
|                    | 144 veranda        | 167 corridor             |



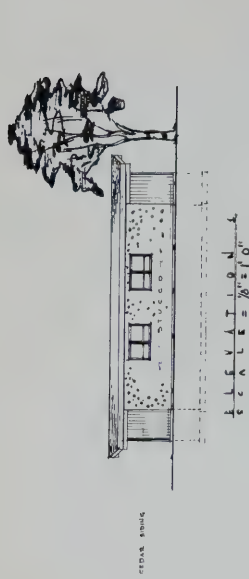
HOME FOR THE AGED  
SCHEME I  
APPROVED FOR BUILDING

1. LANSARD AUG. 1960



MAIN FLOOR PLAN.  
SCALE 1/4"=1'-0"

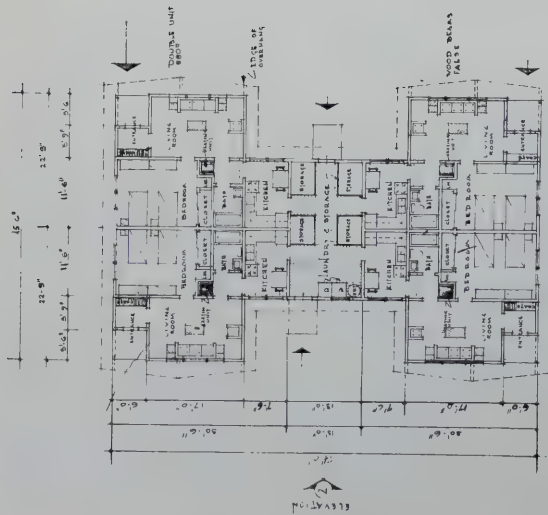
GOVERNMENT OF THE PROVINCE OF ALBERTA  
ARCHITECTURAL BRANCH



HOME FOR THE AGED  
SCHEME No. 2

APPROVED FOR PLANNING

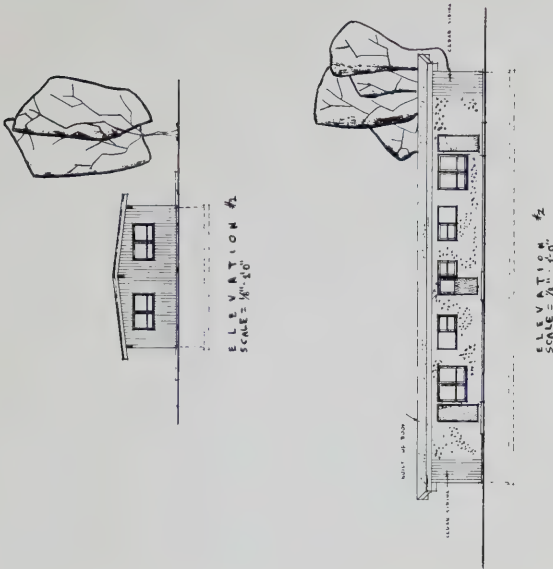
*[Signature]*  
ARCHITECT



ELEVATION

MAIN FLOOR PLAN  
SCALE = 1/8\"/>

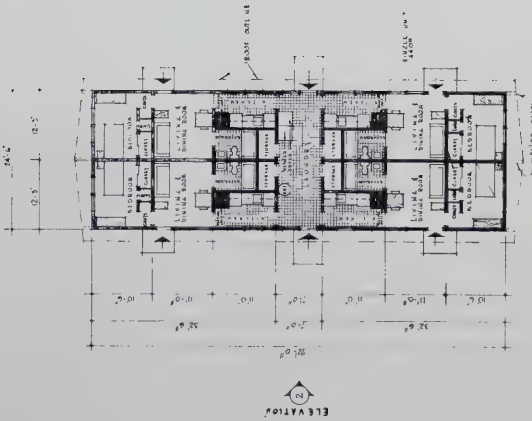
GOVERNMENT OF THE PROVINCE OF ALBERTA  
DEPARTMENT OF PUBLIC WORKS  
ARCHITECTURAL SECTION



# HOME FOR THE AGED SCHEME II

APPROVED FOR PLANNING

*[Signature]*  
ARCHITECT



## MAIN FLOOR PLAN SCALE = 1/8" = 1'-0"

GOVERNMENT OF THE PROVINCE OF ALBERTA  
DEPARTMENT OF PUBLIC WORKS  
ARCHITECTURAL BRANCH

### **ATHABASCA**

Tenders were called for the construction of a six stall snow plow shed at Athabasca in November 1961. The snow plow shed was completed this year and an Oil Storage Shed was also constructed.

### **BARRHEAD**

The Provincial Building, on which construction commenced in April 1960, was completed in the spring of 1961.

The Provincial Treasury Branch and a Liquor Store are located on the main floor of this building. The second floor contains a court room and its supporting offices and provides office space for the following Departments: Agriculture, Lands and Forests and Public Welfare. The full basement houses a vault, staff rooms and washrooms, and storage for the Provincial Treasury Branch; the remainder of the basement being devoted to mechanical equipment and general storage.

The foundations are reinforced concrete pad footings, combined footings on property line next to existing building. Framing is reinforced concrete with exposed columns. Floors and roof construction is of a steel formed ribbed pan system. Exterior walls are brick faced with concrete block backup. Stairwell walls are reinforced concrete as are the stairs themselves. Exterior partitions are basically block with some studwalls. The heating system is hot water radiation type with space heaters at entrances. The court room and all interior areas have a zoned controlled ventilation system.

### **BEISEKER**

The concrete approaches to the Weigh Scale at this point were completed.

### **BELMONT**

#### **Alberta Institution for Girls:**

At the Alberta Institution for Girls, an addition to the cell block was completed this year. A stage complete with dressing rooms was provided in the gymnasium.

#### **Belmont Rehabilitation Centre:**

At this Institution a number of improvements were made including the installation of a fire alarm system and the construction of a skating rink building. Lightning rods were installed on all buildings this year.

### **BONNYVILLE**

Construction was completed on the addition to the existing Provincial Building at this point. The addition houses the Department of Municipal Affairs, Welfare, Agriculture, Game Department, Inspection Services, Court Room and Judges' Room, Juvenile Offenders, Solicitors. It is constructed on slab on grade, concrete block walls, glue-lam beams with wood joist framing, stud partitions and glazed wood screens. The existing building houses the Liquor Store, Treasury Branch, Provincial

Offices, boiler room and lavatories and the addition contains a boiler room, lavatories and electrical rooms.

The existing building front was remodelled and the general exterior re-stuccoed. A new vault was constructed in the Treasury Branch and the Manager's office was relocated, along with the alterations of the counter and tellers' cages. New shelving and counters were included in the Liquor Store.

The back area was regraded and made into a parking area. The front of the new addition was set back from the front of the existing building to provide adequate space for a flag pole and a memorial.

## **BOWDEN**

### **Bowden Institution:**

During the past year the second and final phase of the new storm sewer system was completed.

Construction was completed of an iron removal plant for the water supply system. This plant permits the delivery of water which is free from excessive amounts of iron and manganese, both of which have undesirable effects for the domestic consumer. The water supply system incorporates automatic controls which provide remote control of the two existing water wells as well as maintaining the required levels and pressures at the Institution itself.

Construction of a water storage reservoir was also undertaken in the late fall of 1961. This reservoir provides badly needed fire protection for the Institution as well as assuring the satisfaction of the normal domestic demand. Due to the lateness of the season, the reservoir was not painted this year. It is expected that painting operations will be completed in the summer of 1962.

Construction was completed of a maintenance building and fire hall in 1961. This building provides badly needed space for the operations of the Department's maintenance staff as well as providing accommodation for the fire truck and equipment which is stationed at the Institution.

The Department also completed the construction of a cell block and continued its programme of road improvement and landscaping.

## **BOWNESS**

The concrete approaches to the Weigh Scale at this point were completed.

## **BROOKS**

### **Brooks Horticultural Station:**

A wood framed picnic shelter for visitors and a packing and storage shed were completed at this location.

## **CALGARY**

### **Baker Memorial Sanatorium:**

Construction was completed of a new sewage disposal system for this Institution. This system incorporates a sewage lift station and force main which pumps the sewage across the Bow River to the Town of Bowness sewer system. The system was put into operation in the late fall of 1961.

The Department also installed an electric dumb-waiter and completed conversion of the porch areas in Infirmary 4 and Pavilion 3.

### **Calgary East Weigh Scale:**

The concrete approaches to the Weigh Scale at this point were completed.

### **Calgary Provincial Gaol:**

This year saw the completion of Phase II of construction as was fully described in last year's report. With still further prisoner accommodation required, work was carried out on the installation of cell fronts in the basement of the cell block wing. This area had earlier been planned for such expansion. The Department also completed the construction of a new maintenance building and fire hall similar in many respects to that which was built at the Bowden Institution. It is expected that a new fire engine will be secured in the near future to further ensure the fire protection on the site.

The population expansion at the Gaol necessitated an extension to the existing sewage lagoon. The installation of street lighting and the further development of roads and walks were completed this year as well as additional landscaping of the entire area.

### **Court House:**

Construction continued on this project and was still well ahead of schedule at the end of the fiscal year. Only final finishing work remained to be done at that time and a considerable amount of work had already been undertaken towards the furnishing and equipping of the building—a major task in itself. This building will fill the pressing need for the Southern area for the Province and is designed to meet the needs of this area for many years to come. This new Court House is a steel framed building with reinforced concrete sub-structure and prestressed concrete floors. The building is faced on the exterior with granite and marble and has extensive panelling of exotic woods throughout the interior. The quality of materials generally is in keeping with the dignity of the function of the building. The first contract for the foundations and structural steel was commenced in April 1959. The building will contain a total of 135,750 square feet and as well as accommodation for an R.C.M.P. Court, Citizenship Court and a Small Debts Court, houses twelve main courtrooms with their ancillary accommodation. Also provided will be Judges' Private Rooms and Library, Lawyers' Library, offices for the Sheriff and the Clerk of the Court and their staff,

and accommodation for Court Reporters and for Adult and Juvenile Probation Services. A cafeteria will also be provided.

The Court House contains boilers, refrigeration apparatus, cooling tower and a cooling water well to provide the occupants with modern year around air conditioning comfort. Each area is individually controlled to the occupants requirements. The boilers in the new Court House have been sized to permit heating of the Land Titles Building and the old Court House.

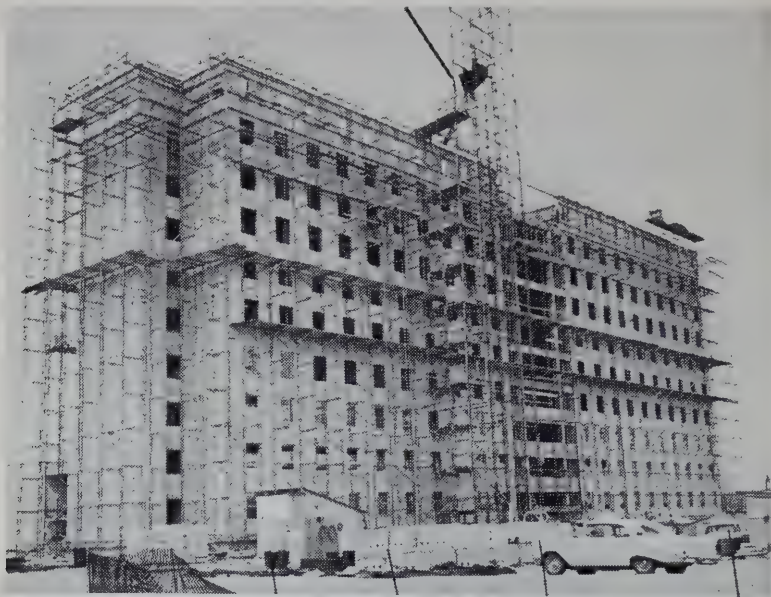


*Court House, Calgary  
As Seen From 4th Street, West*

#### **Foothills Provincial General Hospital:**

Start of the building programme has been made at the Foothills Provincial General Hospital project with the Power Plant and the School of Nursing and Nurses' Residence Building. Tenders were called and construction has started on the foundations and structural steelwork of the main Hospital building.

The site is an 85 acre parcel of land bounded by the Trans-Canada Highway to the north and overlooking the river valley and the City of Calgary. Initial site grading, laying of services and sowing of rye and grass to control blowing dust was carried out the previous year, together with the planting of a tree nursery for use in future landscaping. The site development will take place in various phases during a number



*Nurses' Residence Under Construction  
Foothills Provincial General Hospital, Calgary*



*School of Nursing seen approaching completion in the foreground with  
the Nurses' Residence in the background*

of years and is to include a 750-bed active treatment general hospital, a 100-bed hospital for chronic patients, a nurses' residence and school for 330 student nurses in training, a 500-bed mental hospital, a possible cancer treatment hospital and public health laboratories. In addition to these main functions, a separate power plant building to service the entire site will be built. Food services will be provided in the general hospital for the auxiliary hospital and nurses' residence. Laundry and maintenance shops to serve the entire site will be located also in the main hospital building and all buildings will be inter-connected with walk-in service tunnels.

The General Hospital is designed in the form of an inverted "T" and has 13 floors to provide the shortest horizontal distances from a centrally located elevator core. The building is built onto a hillside to facilitate direct access to the lower service floor which is two floors below the main entrance level. Concrete piles have been utilized to carry the weight of the building to the load bearing strata some 30 to 40 feet below basement level. A structural steel framework is to support the all-masonry building. There are nine elevators located in the central elevator core with provision for the tenth, should it be required. The various departments and functions are distributed as follows:

**Basement:**

Pharmacy, Central Supplies, Central Receiving and Stores, Maintenance Shops, Morgue, Laundry Storage and Mechanical space.

**Ground Floor:**

Auditorium (seating for 300), Staff Cafeteria, Food Services, Personnel Office, Purchasing, Staff Lockers, tunnel connections to Nurses' Residence and Chronic Hospital.

**1st Floor:**

Administration, Main Entrance, Medical Records, Doctors' Lounges, Medical Library, Referral Clinic, Admitting, Snack Bar, News Stand, Emergency Department.

**2nd Floor:**

Psychiatric Wards, Occupational Therapy.

**3rd Floor:**

Rehabilitation, Physio-therapy.

**4th Floor:**

Genito Urinary and Orthopaedic wards, X-ray.

**5th Floor:**

Obstetric wards, Nurseries and Case Rooms.

**6th Floor:**

Medical wards, Clinical Laboratories.

**7th Floor:**

Surgical wards, Operating suites.

**8th Floor:**

Gynaecology and Surgical wards, Doctors' lockers, Internes' Residence.

**9th Floor:**

Neuro-Surgical and Eye, Ear, Nose and Throat wards, Medical Research.

**10th Floor:**

Medical wards, Sun Decks.

**11th Floor:**

Pediatric wards, Isolation wards.

The wards have 38 beds in each of the two wings per floor, with intensive care beds in the respective wards adjacent to the nurses' stations. The clinical areas are related to the type of medical care provided on the particular floor. The various departments will have available all phases of treatment and care within the scope of a general hospital.

Care for the chronically ill will be assured in the proposed 100-bed auxiliary hospital. The very special problem of treating and educating the school-age physically handicapped children will be coped with in a separate 100-bed hospital to be designed for this particular purpose.

Work is well under way on the School of Nursing and Nurses' Residence for the Foothills Provincial General Hospital at Calgary, Alberta. This building, in the form of an angled "H", comprises a three-storied school connected to an eleven-storied residence by a two-storied link, thus providing individual accommodation for 329 nurses in training, plus residential quarters for the Director of Nursing, Assistant Director and Housemother.

The basement of the school houses the mechanical rooms and trunk storage for the students. The first floor contains the combined Auditorium-Gymnasium (with small stage and change rooms) capable of seating approximately 500 persons, two stepped lecture theatres (each seating 160 students), an interdenominational chapel for 60 persons, administrative offices and conference room, washrooms for both men and women, and a small kitchen for use with the auditorium-gymnasium only. On the second floor there is a laboratory for 40 students, a stepped lecture theatre for Nursing Arts seating 60, two practice wards with utility rooms, a reading room, library and washroom facilities.

The low, two-storied link, which is the control centre of the whole building, contains in the basement such areas as a semi-public rumpus room with coffee bar, washrooms for both men and women, mechanical and electrical rooms and the entrance to the service tunnel to the Hospital. The first floor accommodates the main entrance to the building, control and housemother's office, six reception rooms and the main lounge.

The eleven-storied residence houses within the basement such recreational areas as a rumpus room, four music or T.V. rooms, one hobby room, one reading room. The other areas are incinerator room, sports equipment room (bikes), hairdressing facilities, small kitchen,

shop for students, laundry and ironing room (personal), two elevators, sewing room, linen room, janitor and staff rooms. The first floor houses the suites for the Director, Assistant Director, Housemother and two guest rooms. Each suite has a living room, kitchen, bathroom and bedroom. The latter suites are located in such a way as to give complete privacy. The balance of the floor contains a lounge, two elevators and 16 student rooms. The second to tenth floors, inclusive, are typical floors and contain 35 individual rooms, washroom facilities, laundry room, linen room and janitor room. The penthouse, which is glazed, provides a place for relaxing in the winter sun, while the sun deck is used only during the summer months.

The construction of the building is primarily of reinforced concrete (cast-in-place) with precast used on the link and school. Exterior treatment is predominantly of buff face brick broken only by the aluminum windows, natural stone panels and colored porcelain enamel panels, all coupled to give a pleasing architectural appearance. The interior wall finishes depend upon the function but are generally exposed concrete block, tile and plaster. The floor finishes are resilient flooring except for some areas of terrazzo. Heating is by forced hot water and mechanical ventilation is provided to all public areas of the residence, school and link. Generally, illumination is incandescent except for special areas which, due to function, require fluorescent lighting.

Tenders were called and a contract was awarded in July, 1961, for the Power Plant. This building, with its steam boilers and steam turbines, will supply heat to all of the buildings on the site and the power generating facilities will supplement the city power supply as well as provide independent emergency power to the vital parts of the Hospital. The building consists of the boiler area, generator area and refrigeration area as well as such auxiliary areas as the maintenance shops, washrooms, etc. The structure is of reinforced concrete to grade level with a structural steel frame above. The roof has a precast concrete deck. Exterior elevations consist of exposed concrete below the first floor level with buff face brick and aluminum windows above. The pressure plant consists of two 50,000 pound per hour gas and oil-fired high pressure steam boilers for the Hospital and Nurses' Residence. A provision has been made for a future boiler for the anticipated future loads. Refrigeration consists of central absorption refrigeration equipment and a cooling tower of approximately 1,500 tons capacity to provide chilled water for the main Hospital building. The two steam turbine generators, having a capacity of 1,000 kw each, serve as an emergency power supply as well as providing continuous generation for the reduction of peak power loads. A further precaution for emergencies was made by installing a diesel generator in the basement of the main Hospital building.

### **Homes for the Aged:**

Tenders were called and a contract was awarded in June 1961 for the Bow Valley Home for the Aged. It is expected that construction will be completed in the late spring of 1962. There are three lodges, four two-person units, six one-person units, one combination of one and two person units and one services building. These buildings are situated at

the corner of Riverside Boulevard and 11th Street, East, on a site of ten acres. The ultimate total population will be 212 persons. A contract was let in March 1962 for the grading, walks and paving at the site and it is expected that this work will also be completed in the spring of 1962.

Tenders were called and a contract was awarded in November 1961 for the installation of sewer and water lines at the Home for the Aged, Jacques Site. This marked the commencement of construction on this site which is situated on the corner of 24th Street and 12th Avenue, S.W. Tenders were subsequently called in February 1962 and a contract awarded for the erection of the necessary housing units and the completion of all service requirements on the site. Construction of three lodges, nine two-person units, thirteen combinations of one and two person units and one services building has been started. The ultimate total population will be 300 persons. An interesting feature of this site is a foot bridge spanning a wide ravine which bisects the westerly portion of the property. This ravine and the steeply sloped southerly portion of the property are to be developed into a park. It is expected that tenders will be called in late 1962 for the construction of necessary roads, walks and landscaping for the site.

#### **Petroleum and Natural Gas Conservation Board:**

Tenders were called and a contract was awarded in September 1961 for the addition and alterations to the Oil and Gas Conservation Board Building in Calgary. The addition is comprised of two stories bringing the building to its ultimate size as it was originally designed. Additional space is now available for much needed office and laboratory areas for the Departments involved. The building is constructed of the same materials as those used in the first phase, being comprised of a structural steel frame with brick and cement block curtain walls. The entire building, including the addition, is mechanically ventilated and air conditioned.

Tenders were called in February 1962 for the erection and lease-purchase of a Core Storage Centre in Calgary for the Oil and Gas Conservation Board on a site immediately north of the University campus. The building has a total area of 40,000 square feet, is of precast concrete, frame and masonry construction and includes facilities for receiving and cleaning oil well core and rock samples, and geological examination of these samples as well as storage. Completion of the building is scheduled for September 1962.



*Home for the Aged—Jacques Site, Calgary*



*Oil and Gas Conservation Board Building, Calgary*



*Two views of the new Physical Education Building,  
University of Alberta, Calgary*



**Southern Alberta Institute of Technology:**

Tenders were called and a contract awarded in April 1961 for a new shops building designated as the "D" Shops. This building houses facilities for training in the maintenance and repair of farm equipment and heavy duty road building equipment. It also contains sections for instruction in the repair and maintenance of diesel engines, teaching boiler room for the training of stationary engineers, instruction in both acetylene and electric welding as well as normal classrooms for the teaching of theory in the above mentioned fields. The latest and best type of equipment has been installed to facilitate instruction, including a complete power plant which is housed in one large room so that students preparing to be steam engineers can start up, operate and test the following items:

1. A 5,000 pounds per hour steam boiler at 150 p.s.i.g. with gas or oil firing.
2. Associated deaerator, boiler feed pumps, water treatment equipment, boiler controls.
3. Horizontal and vertical steam engines.
4. Instructional steam turbine set with interchangeable blading, condenser, cooling tower circuit.
5. Water tank and test bed whereby pumps can be run and tested.
6. A 60 h.p. instructional gas turbine set.

In the overhaul and diesel shop rooms, a carbon monoxide exhaust system, via underfloor and floor pick-up grilles, allows machinery to be operated safely in any location on the floor. In the steam cleaning and paint rooms ventilation and special sumps are provided so that in these two rooms large caterpillar-type machinery can be stripped of dirt and paint and repainted by the students using industrial type paint stripper, steam cleaners and spray equipment.

The Department completed alterations to the Aero Building and to the west end of the Education Building. This will permit the expansion of the Institute which was made possible when the University of Alberta vacated the space. The Department also completed alterations to various shops and laboratories in the "A" building and in the science addition. This year also saw the continuation of the programme for the removal of several old R.C.A.F. huts on the property. In connection with the completion of the "D" Shops and with the extension of parking areas, construction continued on grading, gravelling and paving at the Institute.

**Southern Alberta Jubilee Auditorium:**

The Department completed certain modifications and additions to the roads and parking lots at the Auditorium which are designed to improve the traffic flow and patron accommodation on the site.

**University of Alberta:**

The new Physical Education Building, which was described in last year's report, was completed on schedule and handed over to the University during the 1961 Christmas vacation. This building covers an area of 52,000 square feet and contains both a men's and women's gymnasium and has ample facilities for minor sports such as wrestling, tumbling, as well as a remedial gymnasium. The structure of the building is of precast concrete, using precast concrete beams over the major areas. The exterior of the building is of precast terrazzo panelling and natural stone facing. The building is serviced with a high pressure steam main from the existing Science and Engineering Building. This source is used for the heating of domestic hot water and for ventilation air. The women's gymnasium, wrestling areas and office areas are mechanically ventilated. The main gymnasium has natural ventilation; hot water heating is used throughout.

Construction was also completed on a Maintenance and Grounds Building for the use of the University maintenance and gardening staff. The site and grounds development which was undertaken represents a considerable effort to transform the site into a well landscaped area. In this connection the street lighting programme and the road and parking lot programme was continued.

**Banff School of Fine Arts:**

Construction was completed on the south wing of the Administration Building at the school.

**CAMROSE****Provincial Building:**

This building, as described in last year's report, was completed in the early summer of 1961. This building houses the Treasury Branch, the Court Room and Attendants' Offices for the Departments of Agriculture, Highways, Labour and Lands and Forests. The building has a concrete foundation and is of frame construction. It has a concrete ribbed slab floor system. The exterior wall is brick faced with tile back-up. The roof is flat and of built-up construction. The front elevation has some precast facing. Interior partitions are of tile or studwall construction. Heating is by hot water radiation.

**CANMORE**

The Department completed installation of a new water well and pressure system for the Snow Plow Shed.

**CLARESHOLM****Provincial Auxiliary Hospital:**

Tenders were called and a contract was awarded in March of 1962 for a third dormitory similar to the one constructed last year. This building contains approximately 110 beds and will provide day rooms, an infirmary and kitchen and dining room facilities. Following the pattern set at the Hospital, the building is of frame construction with a stucco and brick veneer exterior.

The Department also awarded a contract in June 1961 for miscellaneous grading, curbing and gravelling at the Hospital in order to bring about the development of the new road system.

### **COLD LAKE**

Construction was completed of an office and warehouse for the Fisheries Branch.

### **COUTTS**

The concrete approaches to the Weigh Scale at this point were completed.

### **DRAYTON VALLEY**

The Department purchased and renovated a building for use as a Treasury Branch at this point.

### **EDMONTON**

#### **Aberhart Memorial Sanatorium:**

During the past year certain modifications were made to the underground drainage system in the vicinity of the service wing. This was made necessary by the installation of more modern and up-to-date kitchen and laundry equipment in the Sanatorium.

#### **Administration Building:**

The Department completed repairs to the roads and parking lots surrounding this building.

#### **Alberta Research Council:**

During the past year the Department continued alterations to the Alberta Research laboratories.

#### **Cerebral Palsy Clinic:**

An addition to the existing building was constructed by the Department during the past year. The addition will provide much needed classroom space together with an enlarged area for physio-therapy. The six new classrooms now give the staff facilities for carrying on the patients' schooling in reasonably adequate surroundings.

#### **Government Greenhouse:**

The new Government Greenhouse has been completed south of the old Public Works Building No. 2. It is built into the slope of the river bank to make use of the limited space as much as possible. With three different levels of growing area, it follows the slope and the south exposure of the bank like glazed terraces. To follow the curvature of the bank very closely, it is subdivided into three interconnected houses.

The west house serves as a conservatory for tropical plants. This house is accessible to the public over a small open terrace and shows a modest but interesting exhibit all the year round.

In the main house the smaller upper level serves for propagation and the larger lower level provides space for growing cut flowers. Behind the lower level the potting shed has a central location as the work shop for the whole growing area, with a large root cellar beside it for storage in winter time.

In the east house two levels are used for raising geraniums and other cuttings.

There is also a ground floor under the main house and at the east house which provides space for garage and equipment, storage, office space, and lunch and washroom facilities for the grounds department employees.

Vertical connection between the various levels is provided with stairs and with an hydraulic freight elevator. The ground floor and the west side of the main greenhouse level are accessible for trucks.

The whole greenhouse area is covered with a glazed aluminum structure, built by Lord & Burnham of St. Catherines, Ontario, which is the oldest company in Canada in greenhouse construction. All the other work was done by Department of Public Works forces.

The greenhouse is equipped with a steam heating system and additional unit heaters to provide air movement. It has automatic ventilation and a system of automatic humidifiers in all the houses. The different parts of the house can be kept at different temperatures by means of independent thermostats. The floor area under glass is over 8,000 square feet, which is about twice as much as the former greenhouses had in the same location, and houses approximately 1,200 lineal feet of growing benches giving 5,800 square feet of bench area.

Steam heated hot beds to a total length of 520 feet and approximately 70 lineal feet of cold frames will be installed between the greenhouse and the power house as additional means for growing, thus making use of every square foot available in this location.

### **Highways Building:**

Coincident with the change in occupancy of the basement areas of this building, the Department completed modifications to the ventilation system.

### **Municipal Affairs Building:**

The Department of Public Works has renovated the Sun Building, the two-storied brick building now called the Municipal Affairs Building, located on the corner of 104th Avenue and 108th Street. All branches of the Department of Municipal Affairs in the City of Edmonton are located in the building. The building consists of a full basement and two floors, each containing 17,000 square feet of floor area. The structure has a concrete foundation, heavy timber post and beam construction. Exterior walls are of solid brick and the roof is of a built-up bonded type. A suspended ceiling made up of inverted "T" bars and acoustical panels has been installed throughout the building. A ventilation system was installed for interior areas only and steam

convector heating has been provided. A modern entrance with open stair case, wrought iron railing and hardwood panelled walls has also been installed. Interior partitions are of studwall with plaster board finish. The parking lot adjacent to the building, which is part of the land acquired with the purchase of the building, has accommodation for seventy cars.

### **Northern Alberta Institute of Technology:**

To complement the tremendous growth of industry in Northern Alberta, an educational centre for technical studies was required. The City of Edmonton was chosen for this purpose and a site of 26.46 acres was obtained.

The design of the buildings was based on the existing Southern Alberta Institute of Technology and special requirements with recommendations from the various industrial trades in Alberta, where much experience has been gained over the years, and the initial requirements for future institute buildings had already been investigated. With such valuable information available, it was possible to design a building complex to suit these requirements.

The site of 26.46 acres limited the design to a great extent because so many of the functions were to be at ground level. The resultant design was a very compact building complex that was planned and built in three phases. The design was such that an Administration Area (Phase II, Central Building) was the central area, bordered on one side by a laboratory-classroom wing (Phase III, Academic Area), and a workshop-classroom wing (Phase I, Industrial Building) on the other.

The first of these, Phase I (the Industrial Building), was a grouping of the workshop and workshop-classroom areas. The workshops, because they required outside access, were, therefore, planned to surround the classrooms. This planning had two main advantages. It provided covered links between various workshops and allowed for a close classroom-to-workshop relationship. The use of the between-workshop areas for classrooms did, however, create some problems regarding lighting and ventilation. These problems were overcome by the use of courtyards which not only provided natural light and ventilation but also allowed for outdoor activities within the building proper. This building then met the requirements for the automotive, diesel, woodworking, electrical and plumbing trades. Small separate buildings for the plastering and welding trades were also planned. These were to be self-contained units since their relationship to the other trades was not as critical. It was also planned that one of these buildings be known as the Mortar Trades Building, it was to be occupied on March 31st, 1962, and become the temporary administrative headquarters for the Northern Alberta Institute of Technology. Construction of Phase I was begun on January 3rd, 1962.

The second stage of this project is known as the Central Building. This name has more meaning when we consider that it houses the administrative office and connects the industrial buildings with the academic buildings.

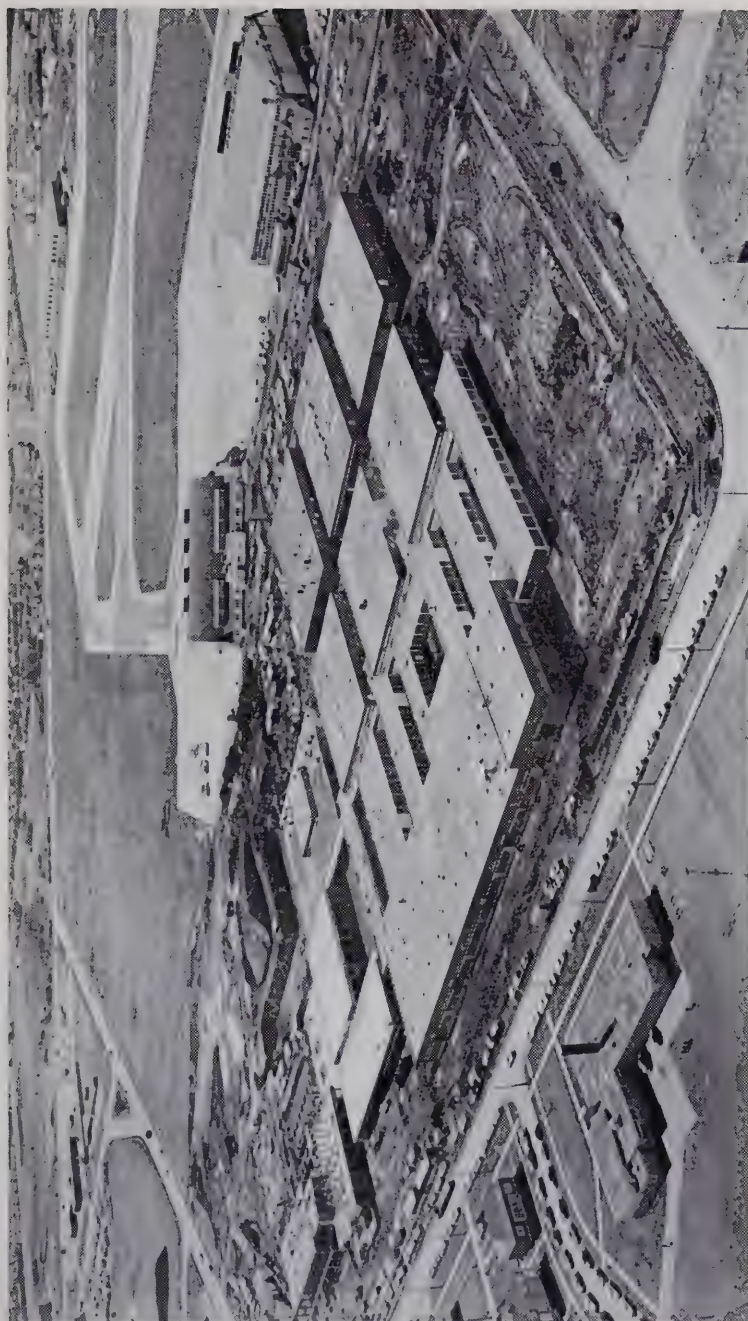
Other functions of this area include the food preparation and dining facilities, the library, the auditorium and the display areas for student projects. A large landscaped courtyard bordering the auditorium, library and corridor areas should create a spacious and pleasant relief from the purely functional appearance of the other areas. It is hoped that student projects may also be on display here and thereby create personal interest by the student and teacher to make this courtyard a focal point for many activities. Completion of the Central Building is expected to be on December 31st, 1962.

The third stage of the project is the academic section and gymnasium. This area is made up of classrooms and laboratories. There are four main divisions of the buildings here, each with basement and two floors above grade. They are the "Technical Block", the "Medical Wing", the "Science Wing" and the "Electronics Wing". The activities of each is defined by its particular designation. The Technical Block houses the accounting division, staff offices, beauty culture, etc., while the Medical Wing houses the X-ray department, bacteriology and hematology laboratories and draughting department. In the Science Wing provisions for the teaching of chemistry, physics, hydraulics, materials, instrumentation has been made, while in the Electronics Wing studies related to radio, television and computers has been provided for. Each of these "Wings", though indirectly related, has been planned with its own independent facilities, classrooms and laboratories, so that it could function freely if the case should arise. Another section of Phase III construction is the gymnasium. This building is so designed that two practice basketball courts, or one large regulation size court is available to the students, in case the students might wish to participate in either volleyball or badminton. Phase III is scheduled for completion on March 1st, 1963.

The structural system for these buildings has been concrete, both poured-in-place and precast. The exterior finish of face brick and interior finish of exposed concrete block or glazed concrete blocks were used throughout. These materials have tended to blend the many units closely together. Accents of glazed ceramic tile have also been used to give emphasis to certain functions, together with the exposed concrete framework, a repetitive rhythmic pattern has been created throughout and makes for a harmonious and pleasing education centre.

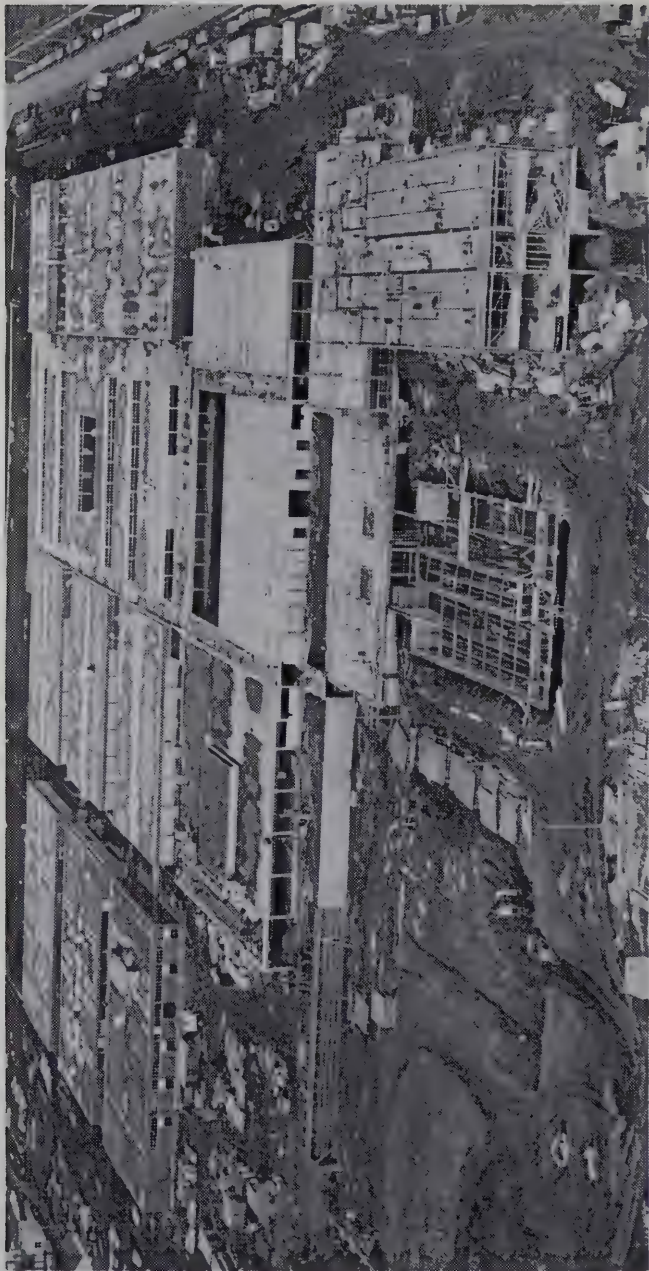
The mechanical system incorporates air conditioning of the central, technical and various sections of Phase III with extended provisions for the offices, lounges and classrooms of Phase I.

Prior to the commencement of the building construction, it was necessary to carry out considerable site development. The site had originally been used as an air force and army supply base and after removal of the old buildings, the services, including sewers, water lines, power and communication lines, had to be rerouted and made suitable to accommodate the new institution. In particular, the new sewage system involved the design for projected future flows as well as for current needs. In conjunction with this construction, it was necessary to reroute an existing communication line linking the Northwest Army Command with the Distant Early Warning line.



*Northern Alberta Institute of Technology, Edmonton*

*The Industrial Building is in the foreground with the smaller Mortar Trades, Welding and Services Buildings on the right. The Central Building is followed by the four wings of the third phase seen under construction*



*The Northern Alberta Institute of Technology, Edmonton, as seen from the opposite southern end*

**Northern Alberta Jubilee Auditorium:**

The Department conducted grading and landscaping operations at the northeast corner of the site thereby completing the landscaping programme in this area. In the Auditorium itself, certain modifications were completed in order to improve the ventilation in the projection suite.

**Public Works Shops Building:**

The Department completed alterations in this building to accommodate the various trades which now occupy the space.

**Queen's Printer Building:**

Following the relocation of the Queen's Printer office in this new building, the Department completed modifications to the ventilation system. These provisions were necessary due to the operating conditions and quantity of volatile liquids used by this office.

**Single Men's Hostel:**

The Department completed construction of the addition to the Single Men's Hostel which was commenced last year. The building consists of a basement, main and second floor. The basement has a corridor, four wards, mechanical room, two washrooms, linen room, storage, two stairwells, shower room and janitor room. The main floor has an entrance, corridor, six wards, two washrooms, linen room, two stairwells, shower room and janitor room. The second floor has a corridor, six wards, two washrooms, linen room, two stairwells, staff room, shower room and janitor room. The basement floor and walls are of concrete. Outside walls are of du-al type block, brick veneer and terrazzo panels. Inside walls, floors and roof slab are of du-al type blocks and the walls and ceilings are plastered. Terrazzo is used in the corridor, washrooms, stairs, shower room, entrance and janitor room. All other rooms have lino floor finish.

**Terrace Building:**

An event of interest to several Government Departments was the commencement of construction of the new Terrace Building in the Legislative Building Grounds. Following closely upon the demolition of the original Terrace Building and the old Department of Public Works Shops, tenders were called and contracts awarded in March 1961. A major factor in the construction of the building was the requirement to complete the first section in time to receive the new Data Processing equipment scheduled to arrive in October 1961. Blocks A and B were completed on time and were occupied immediately. The remainder of the project will be completed by July 1962.

Of reinforced concrete construction throughout with exposed concrete and mosaic tile façades and wood windows, the completed building will include 198,990 square feet of which a total net floor area of 127,375 square feet is effective office space. This space, finished in rubber tile and special acoustic ceilings, is equal in terms of lighting and air conditioning to the best contemporary commercial office space.

The atmosphere conditioning is of prime importance in the Audit Department Data Processing Centre which may be regarded as the heart of the building.

The building includes a cafeteria and is equipped with four hydraulic type passenger elevators and two dumbwaiters installed under a separate contract.

The building is serviced with steam from the legislative power plant and has a remote cooling tower adjacent to the power plant. The building contains the largest absorption cooling unit in Alberta.

Inasmuch as this building represents the largest single office building which is occupied entirely by the Government of Alberta, it is interesting to note the occupancy of the building as follows:

	<b>"A" Block</b>	<b>"B" Block</b>	<b>"C" Block</b>	<b>"D" Block</b>
<b>1st Level:</b>	Mechanical	Mailing Room Purchasing Cafeteria	Treasury Dept. Public Service Commissioner	Mechanical
<b>2nd Level:</b>	Audit Dept. Transformer Room Dept. Public Works	Audit Dept. Mechanical	Public Service Commissioner	Dept. of Labour Mechanical Public Service Commissioner
<b>3rd Level:</b>	Audit Dept.	Audit Dept. Dept. Water Resources	Dept. of Labour	Dept. of Labour
<b>4th Level:</b>	Dept. Public Works	Audit Dept.	Treasury Dept.	Dept. of Labour
<b>5th Level</b>	Dept. Public Works	Purchasing Agency Civil Service Association Credit Union	Dept. of Labour	Dept. of Labour

#### Gross Area Per Floor

"A" Block	6,096 square feet
"B" Block	11,520 square feet
"C" Block	8,196 square feet
"D" Block	10,980 square feet
"E" Block	11,224 square feet

Areas between blocks is 3,462 square feet

Gross area of the Terrace Building is 198,990 square feet



*The Terrace Building, Edmonton,  
as seen from the dome of the Legislative Building*



*Artist's conception of the Education Building, University of Alberta,  
Edmonton, now under construction*

**University of Alberta:****Education Building**

Tenders were called and a contract was awarded in December 1961 for the construction of the new Education Building in Edmonton. This building will be located on the north of 87th Avenue between 112th and 114th Streets, east of the Northern Alberta Jubilee Auditorium. The main façade will face to the south.

The proposed building complex is composed of three separate buildings; namely, a ten-storied Tower with four east and west wings and projecting from the wings are a two-storied library to the east and a one-storied gymnasium to the west.

Exterior wall facing for the Tower and wings is of precast panels with a white quartz aggregate and black granite chips. The periphery of the gymnasium has a concrete block screen in a concrete frame. The sculptured type of precast concrete panel shows in the panels used on the library, which are white quartz with a diamond shaped portion having a polished finish. Windows are aluminum framed with double glazing. All rooms for instruction are provided with audio visual or black-out blinds.

Interior wall finishes are generally concrete block painted. There are some walls with plaster or wood finishes. Floor finishes are vinyl, vinyl asbestos, wood, and precast terrazzo, depending upon the room function.

The Tower, library and gymnasium are fully air conditioned while the wings are ventilated with provision for future cooling. Most lighting is fluorescent, except in special cases where incandescent illumination is required.

Owing to the increasing demands made upon this faculty, the east and west wings are designed to accommodate two additional floors, while the library is designed for one additional floor. The following are the gross areas for the new Education Building:

Library -----	28,618 square feet
Gymnasium -----	36,143 square feet
East and west wings -----	116,580 square feet
Tower -----	108,741 square feet
Total -----	290,082 square feet

The Tower or Administration Block houses the General Administration Offices, Department of Curriculum and Instruction, Department of School Administration, Department of Educational Psychology, Department of Educational History, Sociology and Philosophy, Faculty Research and Publications, Staff and Seminar rooms, Locker room and mechanical rooms.

The east and west wings house the instruction areas and consist of the following:

- 36 General purpose classrooms
  - 1 Language and speech laboratory
  - 2 Mathematics classrooms
  - 2 General science classrooms
  - 3 Art classrooms
  - 1 Ceramics classroom
  - 1 Secondary physical science classroom
  - 1 Secondary biological science classroom
  - 1 Typing and shorthand classroom
  - 1 Office practice classroom
  - 1 Combined choral and instrument classroom
  - 1 Choral laboratory
  - 1 Ensemble and rhythm laboratory
- 14 Practice rooms for music
  - 1 Lecture theatre for 150 students
- 6 Seminar rooms

Student facilities, such as lunch room and common room, are provided in the basement of the west wing. All instruction areas are provided with TV outlets for future audio visual instruction. Completion is scheduled for July, 1963.

### **Grounds Development**

During the past year the Department continued the extensive programme of grounds development on the campus which follows the completion of the major buildings over the past few years. The majority of this work was done in the vicinity of the new Physics-Chemistry-Mathematics Building and involved the construction of retaining walls, malls, roadways, parking areas, etc. The Department also completed a programme which extended and rerouted the sewers in the vicinity of the new Education Building. The street lighting programme was also continued during the year.

### **Health Services Building**

Construction was commenced in November 1961 on a new building to house the Student Health Services facilities for the University. Following the recent sudden increase in enrollment, and in pace with the provision of new educational buildings on the campus, it was necessary to replace the out-dated and limited accommodation which previously served for the Health Services to the student body.

The new facilities are in the form of an out-patient clinic with laboratory and dispensary, and which also functions as a well-baby clinic for student and staff families, and a medical wing which provides minimal facilities for the care of 20 bed patients. The new building's location immediately adjacent to the University of Alberta Hospital, allows the use of the specialized surgical and diagnostic facilities of the

larger institution. The hospital section has provision for a future 20 bed extension.

The building has a total floor area of 13,300 square feet and the hospital section is of reinforced concrete and masonry construction, while the clinic wing has a laminated wood superstructure.

Occupancy by the University personnel will take place in July 1962.

### **Public Works Buildings and Services:**

#### **Addition to the Department of Public Works South Power Plant**

An addition to the Department of Public Works South Power Plant consisting of two steam generators, related piping and auxiliary mechanical and electrical equipment, was completed during the past fiscal year. The completion of this project represents another phase in an over-all programme to provide steam and electrical generation and distribution facilities required by the rapidly expanding University area.

Previously completed phases of this programme include the Department of Public Works South Power Plant, three steam distribution system projects as well as electrical projects to improve and extend the electrical control and distribution system. The Department of Public Works South Power Plant with its 2,000 k.w. gas turbine generator, City Feeder, Sub-station, and other electrical control equipment for the University area, is located in the electrical control centre. The different sections of the new steam distribution system terminate at the South Power Plant and are linked with the existing University steam generation plant and distribution system.

The addition to the steam plant at the South Power Plant complements the previous system in two ways. It will eventually become the steam generation centre for the entire University area and it will also provide high pressure steam for steam turbine generators. A 5,000 k.w. turbine will be installed in the fall of 1962.

The steam generating plant is housed in a 70' by 110' extension to the east side of the South Power Plant. The building consists of five bays formed by six precast concrete beams supported on precast concrete columns at the outer walls. The walls consist of concrete blocks.

Basically, the steam generating plant consists of three sections:

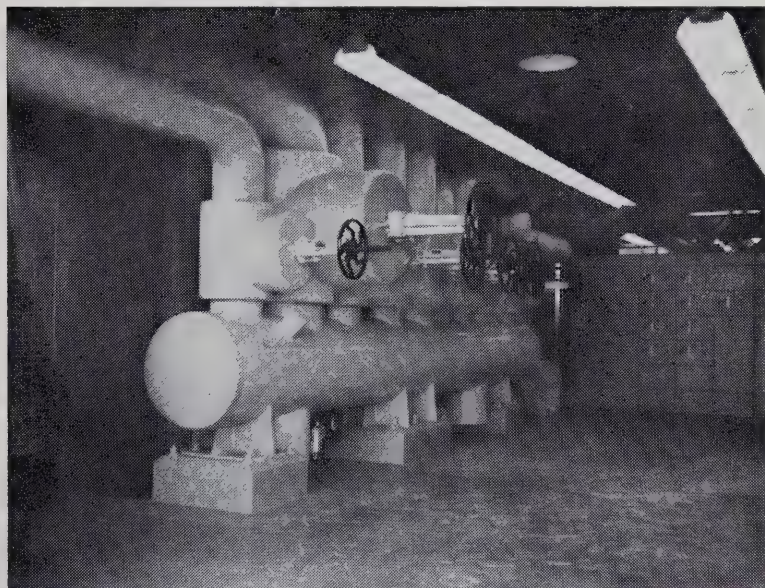
- (a) The **Feedwater** end of the plant is located on three levels in the bay most remote from the existing unit. This section consists of feedwater storage, heating, filtering and pumping facilities.
- (b) The **Steam Generation Section** consists of two 150,000 pound per hour steam generators operating at 425 p.s.i. and 730° F. steam temperature and is located within the centre three bays of the plant.

- (c) The **Steam Control Section** is located on four levels of the bay next to the existing plant and consists essentially of steam piping for the purpose of reducing steam pressure, reducing steam temperature, and for distributing the steam to the various items of plant equipment and to the steam distribution mains.

The boilers are equipped with economizers by which the feedwater recovers heat from the flue gas, and superheaters to raise the final steam temperature, by almost  $300^{\circ}\text{F.}$  to  $730^{\circ}\text{F.}$  This high temperature is required solely for the purpose of obtaining higher efficiencies in the operation of the steam turbines.

Steam is supplied to the distribution mains at two pressures: low pressure steam at approximately 10 p.s.i. and intermediate pressure steam at 185 p.s.i. The exhaust from the steam turbines will be the main source of low pressure steam. If this exhaust steam is insufficient or if the turbines are not operating, then two sets of steam pressure reducing stations (425 p.s.i. to 185 p.s.i. and 185 p.s.i. to 10 p.s.i.), together with water spray type desuperheaters, will provide the second source of low pressure and intermediate pressure steam. At the desuperheaters, water under pressure is injected into the  $730^{\circ}\text{F.}$  temperature steam and its superheat is absorbed by the water to lower the steam temperature to a point which will not cause excessive stresses and expansions in the distribution piping.

The Plant is also provided with such other auxiliary equipment as water softeners and dealkalizers to treat the make-up water which



*Steam Header and Switch Gear*

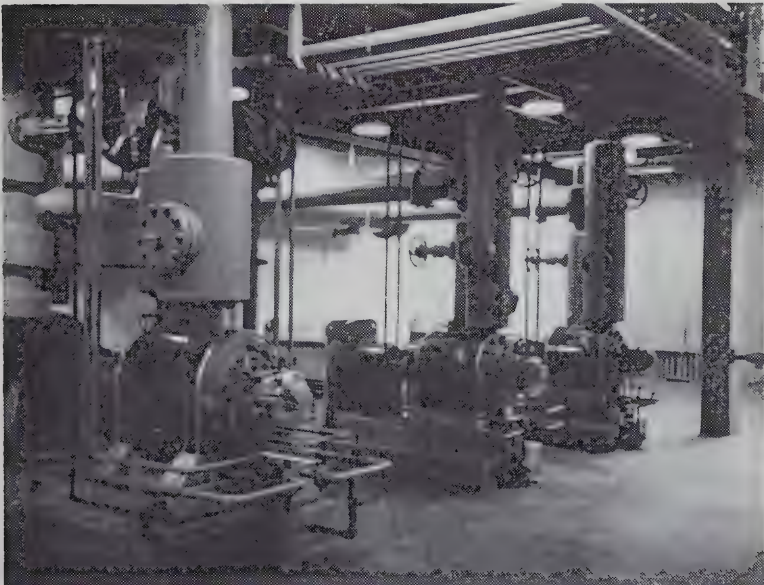
amounts to about 10% of the steam generated. A part of this make-up is provided by a 10,000 pound per hour evaporator. Diatomaceous earth condensate filters were installed to filter out oil which enters the system through reciprocating steam engines at the University Power Plant, and which would cause operating difficulties for boilers of this pressure and temperature. To provide for an electrical failure, a steam turbine driven boiler for the pump has been installed. In the future it is intended to provide steam turbine drives for the forced-draft fans.

The combined capacity of the present two boilers is 300,000 pounds per hour and provision has been made in the plant and distribution piping to permit doubling the plant capacity to 600,000 pounds per hour.

In connection with the new addition, the Department improved the drainage from the grounds and constructed parking areas and loading areas designed to accommodate the movement of large vehicles carrying loads expected for this plant.



*2,200 KW Gas Turbine and Waste Heat Boiler*



*Boiler Feed Pumps*

**University of Alberta Hospital:****Clinical Services Addition—Phases II and III**

Remodelling of the 1912 portion of the University Hospital was carried out as Phase II of the Clinical Services Addition. This structure has been completely overhauled, reinforced, a top floor added and refurbished with new plumbing, heating, ventilation, nurses' and doctors' call systems and rewiring. The original room layouts have been revised to modernize this section and to tie-in with the functions of the new Clinical Services wing. This was followed by the reconstruction of the 1929 portion as Phase III. Work in this section is similar to the work described for Phase II and will, when completed, conclude the remodeling of the older ward sections of the hospital.

**Laundry and Maintenance Building**

The new Laundry and Maintenance Building at the University Hospital was completed this year. This building accommodates a number of varied functions: laundry and laundry storage, carpenters' shop, morgue, paint shop, gardeners' shop and lunchroom. The building is linked by a tunnel to the hospital and consolidates these vital services in a more modern environment. A steel structural system was used above the first floor level to allow the large spans in the laundry; the basement and the first floor structure is reinforced concrete. Material finishes were also chosen to suit the condition of each area, e.g., glazed concrete block in the laundry and morgue and exposed concrete block in the storage and work shops. Mechanical ventilation and cooling were also provided to maintain proper working conditions in the various portions of the building.

A contract was awarded in April of 1961 for the extension of paving in the vicinity of the Hospital buildings.

**EDSON**

The new Provincial Building was completed in the autumn of 1961 and officially opened in October 1961 by the Honourable N. A. Willmore, Minister of Lands and Forests.

**FAIRVIEW****Fairview Community College:**

A prefabricated steel building was erected at the Community College to provide instructional facilities in metalworking and carpentry. This building replaces, in part, the accommodation destroyed by fire in 1958. The new building has a floor area of 7,000 square feet.



*Provincial Building, Edson*



*A typical eight-stall Snow Plow Shed, similar to the one constructed at Grimshaw*

**FORT MACLEOD****Court House:**

The Department performed minor renovations in this building during the past year.

**Department of Highways Storage and Repair Shops:**

An addition to the Highways Maintenance Shops at this location was completed. The addition consists of an office, parts storage, two new wash bays and the conversion of an existing wash bay into a painting booth.

**FORT SASKATCHEWAN****Provincial Gaol:**

Construction was completed of a new Administration Building at the Gaol. The site, in front of an existing building, dictated the shape of the new building. This is in the form of a crescent with the curved ends allowing the maximum of light into the existing building. The main floor contains administrative offices and visitors areas while the second floor contains medical facilities for the inmates, including hospital and dental facilities as well as staff living quarters. The basement contains storage and recreational facilities as well as punishment cells for the inmates. Construction is of reinforced concrete with exterior walls of block and brick veneer.

The Department also commenced renovations to the existing offices in the old Administrative Building. It is expected that this work will be completed in July 1962. Renovations to the plumbing systems in the male cell block were completed as well as an extension to the water treatment plant to increase its capacity in line with increased loads.

**GRANDE PRAIRIE****Department of Lands and Forests:**

The Department completed construction of a four-stall garage and warehouse for the Department of Lands and Forests at this point. The work on this site also included fencing as well as the moving of an existing building to a new foundation.

**Department of Highways:**

The Department conducted renovations to the existing frame repair shop to provide for a four-stall truck shop. The Department also conducted a grading and gravelling programme on the site.

Purchase was made of additional property for the purpose of consolidating the property already held in connection with the above two sites.

**GRIMSHAW**

Tenders were called in November 1961 and a contract was awarded for the construction of an eight-stall Snow Plow Shed at this point. It is expected that construction will be completed by June 1962. A contract was also awarded in January 1962 for the construction of a Highways Maintenance Shop which is presently under way.

### **HIGH LEVEL**

The Department completed construction of a four-stall Snow Plow Shed at this point.

### **JASPER PLACE**

#### **Pineview Home:**

During the past year the Department purchased property as a future site for this Home. This property is adjacent to the proposed Hospital to be built by the Sisters of Misericorde.

#### **Treasury Branch:**

A new office for the Treasury Branch was completed in Jasper Place. Located on the main business street, Stony Plain Road, the new branch has customer parking to the rear of the premises. The single-storied building is of concrete masonry and a pitched wood roof on laminated wood beams. The over-all size of the building is 2,600 square feet; the main customer and work space being 1,750 square feet. A manager's office, vault, staff lunch room and washrooms comprise the remainder of the accommodation.

### **LAC LA BICHE**

The Department completed construction of a new four-stall garage and warehouse for the Department of Lands and Forests at this point. A contribution was also made towards the Department's share of the installation of water services to the site.

### **LEDUC**

Construction was completed of a four-stall Snow Plow Shed for the Department of Highways at this point.

### **LETHBRIDGE**

#### **Administration Building:**

Renovations for the Administration Building in the City of Lethbridge have been completed by the Department of Public Works. The former International Harvester Building, a four-storied warehouse building, has been completely renovated into a pleasant looking modern office building. Government Departments occupying the building are Department of Highways (Motor Vehicles), Health, Labour, Welfare, Provincial Secretary, Municipal Affairs, Mines and Minerals, Agriculture and Lands and Forests. The structure, consisting of a full basement and four floors, contains a total of 58,480 square feet of floor area and has a volume of 795,300 cubic feet. The building has concrete foundations and heavy timber frame and floors. Interior partitions are of studwall and plaster board. A new metal stairway was installed in the existing stairwell, and a modern entrance was provided with precast slabs lining the outside. The roof is of a built-up bonded type, and the outside walls are of solid brick. The parking lot, adjacent to the build-

ing, provides parking for 75 cars. For more efficient communications, a private branch exchange with a capacity of 100 phones was installed.

**Provincial Gaol:**

During the past year construction was completed of a two-storied store room. Renovations of the plumbing and heating system continued as part of a three year programme.

**MEDICINE HAT****Department of Highways:**

A contract was awarded in November 1961 and construction was completed of an addition to the Snow Plow Shed at this point. The addition provides new repair shop facilities consisting of three repair bays, a paint booth, parts storage and an office.

**Treasury Branch:**

The Department completed alterations to this building during the past year.

**OLDS****Olds Agricultural School:**

The Plant Science Building and the new Dairy Barn at the School of Agriculture, described in the previous report, have now been completed and occupied.

The Department also installed a new fire alarm system as well as making certain additions to the roads and street lighting systems.

**OLIVER****Provincial Mental Institute:**

During the past year the Department completed additions to the ventilation system in the kitchen as well as completing construction of an addition to the laundry. Renovations to the plumbing and heating systems in wards 3 and 4 were commenced this year. A contract was also awarded for the supply and installation of passenger elevators in Dormitories 1, 3 and 4. In July 1961 a contract was awarded and construction was completed on the extension of water lines and storm sewers for the Institute.

**Tree Nursery:**

Construction was completed of an addition to the shipping and drying room as well as the lining and insulation of the work room.

**PONOKA****Provincial Mental Hospital:**

Tenders were called and a contract was awarded in December 1961 for the erection and completion of the Administration and Reception

Building. When completed, this building will provide space to accommodate administrative wards, operating theatre, technical laboratories, treatment areas, dining and recreational areas and administrative offices. A tunnel connection has been provided for the movement of patients from this building to the main Hospital complex. The building is constructed of reinforced concrete frame with brick facing. The main unit is three-storied with the administration wing having two storeys. The building is fully air conditioned.

Construction continued on the extension to the main Kitchen and Bakery. It is expected that this work will be completed in July 1962.

The Department also continued alterations to the Old Nurses' Residence. Completion is expected in June 1962. The building was constructed in about 1900 and has housed a great number of nurses who were trained to serve other hospitals or to work in other mental institutions but signs of deterioration started showing in this old building and some sort of rejuvenation was needed. It was then decided to carry out a thorough job to repair squeaky floors, crumbling plaster, replace decaying woodwork and obsolete light fixtures, remove rusty and inefficient heating elements, etc. Now that the first part of this endeavour is completed, this residence is providing a home for this and the following generation of nurses—a home which is now in line with fire safety regulations, full of colours and comfortable. In one word, this building looks like a new one.

The Department also completed the renovations and addition to the Power Plant at the Hospital as well as performing renovations and alterations to the dining hall and kitchen in Building No. 15.

The paving and landscaping programme continued.

## **PEACE RIVER**

### **Department of Lands and Forests:**

During the past year the Department demolished the existing R.C.M.P. Building and constructed a new warehouse for the Forestry Protection Branch of the Department of Lands and Forests.

### **Provincial Building:**

The Department installed equipment for the air conditioning of the second floor of this building.

## **RED DEER**

### **Deerhome Institution:**

Tenders were called and a contract was awarded in June 1961 for the Recreation and Therapy Building at this Institution. Construction was completed in the latter part of this fiscal year. The building will provide space for occupational therapy and supervised recreation. Facilities have been provided for male patients training in woodworking and painting and for female patients training in weaving, pottery, dress-making, etc. Storage areas for both the male and female sections have been provided in such a manner as to allow expansion of teaching space into these areas at which time future additional storage will be added.

The main entrance lobby has provisions for the display of the patients' handiwork. The recreational area is in a separate section opening off the main lobby and consists of an auditorium-gymnasium. A stage and make-up rooms have been provided to accommodate both the patient actors and outside groups who visit the Hospital. For summer use, an outside bandstand has been attached to the auditorium wing for band concerts.

The building is of masonry construction founded on piles and grade beams with a slab on grade. The roof of the auditorium is constructed of glue-laminated beams with a steel deck ceiling. In connection with the construction of this building, the Department also constructed roads and parking lots in the area.

Construction was also completed of Dormitory No. 5. This building was described in last year's report.

The Department completed construction of a Laundry, Linen and Boiler Plant addition as well as constructing a sports centre and skating rink for the Institution.

Improvements were made to the existing outfall for the storm sewer system and extensions were made to the existing water supply system.

#### **Department of Highways:**

Following the occupancy of the new Highways Maintenance Shop in Red Deer, an acoustical ceiling was installed in the offices of this building. Construction was also completed of the concrete approaches to the Weigh Scale which is located north of the City.

#### **Provincial Training School:**

The paving and landscaping programme was continued at this Institution. The Department also constructed a hog shelter as well as extending the heating system in the greenhouse.

### **ROCKY MOUNTAIN HOUSE**

#### **Department of Highways:**

A contract was awarded in November 1961 and construction was subsequently completed of a four-stall Snow Plow Shed near the Town. In connection with this site, an Oil Storage Shed and loading platform were also completed.

#### **Department of Lands and Forests:**

Construction was completed of a Lands and Forests Warehouse at this point and the property was fenced.

#### **Provincial Building:**

During the past year the Department completed plans for a new Provincial Building at Rocky Mountain House. However, construction was not undertaken due to lack of funds.

**SLAVE LAKE**

In March of 1962, a contract was awarded for the erection and completion of an office building for the Slave Lake Division of the Department of Lands and Forests. The building is of frame construction with a full basement and is scheduled for completion in August, 1962.

**ST. PAUL**

A contract was awarded in November 1961 for the construction of a six-stall Snow Plow Shed at this point.

**VALLEYVIEW**

Construction commenced in November 1961 of a four-stall Snow Plow Shed near this point. Completion is expected in June of 1962.

**VEGREVILLE**

Certain minor alterations to the Court House were made during the past year.

**VERMILION**

No major construction was undertaken at the School of Agriculture during the past year.

**WARBURG**

A contract was awarded in November 1961 for the erection and completion of a two-stall Snow Plow Shed at Warburg. Completion is expected in June of 1962. An Oil Storage Shed was also completed during the past year.

**WARNER**

During the past year construction also commenced on a two-stall Snow Plow Shed near this Town and completion is expected in June 1962. An Oil Storage Shed and loading platform were completed as well.

**WHITECOURT**

A four-stall Garage and an Office Building for the Whitecourt division of the Alberta Forestry Service were completed at this location. The divisional office includes bathing and laundry facilities for fire fighting crews. Fencing of the property was also completed during the past year.

### ALBERTA LIQUOR CONTROL BOARD

New outlets for the Alberta Liquor Control Board have been built to service the towns of:

Breton	November 1961
Bow Island	September 1961
Drayton Valley	April 1961
Empress	April 1961
Forestburg	December 1961
Foremost	December 1961
Ponoka	August 1961
Rocky Mountain House	December 1961
Sylvan Lake	August 1961
Turner Valley	March 1961
Wetaskiwin	June 1961
Waterton	April 1961

The buildings are similar in size and of simple design. They provide a pleasant appearance and in most instances these stores have encouraged the local merchants to follow suit. Durable materials such as concrete blocks, prestressed roof slabs, Glulam beams and wood deck, fieldstone, face brick, architectural metals and coloured panels have been used to blend in with the architecture of the local conditions.

Furthermore, the existing Liquor Stores at:

Coleman	November 1961
Lloydminster	November 1961

were found to be in poor condition from a standpoint of maintenance, function and appearance. The stores were altered to suit the modern function of the Alberta Liquor Control Board and the appearance of these stores was brought up to date to match that of the new stores in these centres.

### MECHANICAL BRANCH

This report covers the operation and maintenance of Power Plants and larger Heating Plants serving major Provincial Institutions and other establishments throughout the Province. These plants, totalling sixteen in number, function to supply heat, power and utility services as required.

Production figures and operational costs, as shown in the statistical sheets attached, reflect some increase in demand of services. The following brief notes cover particular items of operation, maintenance and new installation.

#### Baker Memorial Sanatorium—Calgary

A new 25,000 Lb./Hr. deaerating type feedwater heater has been purchased to replace an old open type heater of 9,000 Lb./Hr. rating

installed about 1919 and now inadequate. An additional boiler feed pump has also been purchased to duplex a unit installed in 1955. Installation of this equipment will be carried out next year.

### **Southern Alberta Institute of Technology—Calgary**

A new domestic service water heater complete with controls, and return circulating pump, all purchased last year, has now been installed. It replaces a heater in service since 1922.

### **Provincial Auxiliary Hospital—Claresholm**

As reported last year, this power plant is a completely new installation and not yet in full operation. Certain tools and equipment required for normal operation and maintenance, and spare equipment parts, particularly for the 500 KVA steam turbine unit, have been purchased and delivered to the plant.

### **Public Works South Power Plant—Edmonton**

Installation of two 150,000 pound per hour boilers is completed and together with auxiliary equipment they are now in initial operation augmenting service of the old North Plant to the area. These boilers have supplied approximately 118,000,000 pounds of steam to the system since December 1961, and the plant, a total of 155,246,000 pounds of steam for the year. The 2,200 KW gas turbine unit in operation, generated a total of 6,642,000 KW Hrs. of electricity, approximately one-fifth of total area requirement. Project planning of the plant by Public Works Engineers includes for installation of steam turbo-alternator units. The first unit, a 5,000 KW machine is on order for delivery early next year.

First maintenance inspection and overhaul of the English Electric Company 2,200 KW gas turbine unit was carried out under direction and supervision of their factory field service engineer. The capital investment in this unit justifies the expenditure for such procedure. Spare parts to be carried in plant stock for the unit are on order from England. Delivery is anticipated early in the summer months of 1962.

### **Legislative Buildings—Edmonton**

An atmospheric type heat exchanger purchased and delivered to the plant last year has been installed and placed into operation. It functions to condense excess exhaust steam and return it to the plant as condensate. Operation for only part year has reduced boiler feed make-up to twenty-two percent from forty-four percent the previous year. This is a reduction of approximately 45,000,000 pounds of make-up and represents an appreciable savings in water and treatment costs. Some alternation of installation is required and will be carried out in the new year.

A 125 KVA Diesel-Electric generator set, control panels and service transformer have been purchased and delivered to the plant. This equipment is for renovation of plant electrical system and to provide emergency station service. Installation will be in the new year.

**Provincial Gaol—Fort Saskatchewan**

There is on order a new 210 KVA Engine-Generator unit for this plant, to replace a 125 KVA unit originally installed in 1926, and to provide some required additional generating capacity. Delivery of the unit is anticipated in early summer.

**Provincial Gaol—Lethbridge**

Purchase and delivery to site has been effected on order of a new 15,000 Lb./Hr. Packaged type boiler for this plant. The boiler will provide additional and reserve steam generating capacity. Construction of power house building extension and installation of the boiler will commence in early summer.

**Provincial Mental Institute—Oliver**

A boiler of 25,000 Lbs./Hr. rating, Package type, has been purchased for this plant and recently delivered to site. The boiler will provide needed additional steam generating capacity and reserve. Construction of power house building extension and installation of the boiler is planned to start in early summer.

An induced draft fan and drive has been purchased for addition to No. 3 boiler, to obtain a 2,000 Lbs./Hr. increase of output and continuous rating of 18,000 PPH. Installation of the fan and all duct work however, cannot be carried out till after the new 25,000 PPH is in scheduled operation.

**Provincial Mental Hospital—Ponoka**

Renovation of the power plant in conjunction with overall project kitchen-bakery extension and plant addition is now completed and normal operation resumed. The plant is vastly improved, more spacious, bright, painted up, a "show place", as well as more efficiently serving the Institution. Public Works Engineers handling the project and all personnel of construction and plant operation are to be commended for a job well done.

**Provincial Training School—Red Deer**

There is on order a 500 KVA steam turbo-alternator unit for this plant. This unit is to replace an old 62½ KVA machine and increase plant generating capacity. Some preparation for installation of the new unit is started. The old machine has been removed from the plant and shipped to the Southern Alberta Institute of Technology, Calgary, where it will be installed for instructional use in the Power Plant Engineering Courses and training program being set up there.

**Deerhome Institution—Red Deer**

A third 15,000 Lb./Hr. boiler installed in this plant is now in operation. Dormitory and other buildings as originally planned for the Institution are under construction and continued building program is scheduled for 1962/63 fiscal year.

Looking at the attached Power Plant Statistical sheet it is interesting to note that, for this new institution still in development stage, the

utility services are now greater than at the old neighboring institution, the Provincial Training School. Total plant steam output for the year was 92,643,000 pounds and electric power requirement was 2,853,000 KW Hrs. as compared to 83,012,000 pounds of steam and 1,446,400 KW Hrs. power requirement at the Provincial Training School.

### **Bowden Institution—Bowden**

The combustion controls have been replaced on a large hot water service heater direct fired with natural gas, as had been requested by the Gas Inspection Branch following investigation of furnace explosions in other installations of similar equipment. The replacement controls afford greater safety of automatic operation and are fully approved.

Some maintenance work has been done on the services building and particularly, much needed ventilation in the boiler room has been provided.

### **Provincial Gaol—Calgary**

As reported last year, this is a new plant, staffed in late 1960 and not fully in operation till late 1961. Miscellaneous items of tools, chain blocks, etc., as required for operation and normal plant equipment maintenance have been purchased and delivered to the plant.

### **Rosehaven Home—Camrose**

Following request by this office for much needed additional boiler capacity at this plant, a third 50 H.P. utility boiler has been purchased, installed, and is now in operation. Peak steam loads are now carried and reasonable service to the institution is assured.

### **Belmont Rehabilitation Centre and Alberta Institution for Girls— Belmont**

Normal operation and maintenance with nothing particularly out of order has been the routine for the year at these adjacent institutions which are under the supervision of one Chief Engineer.

# PROVINCIAL GOVERNMENT POWER PLANT STATISTICS For Year Ending March 31, 1962

Location of Plant	FUEL		WATER		ELECTRICITY Generated (Kilowatt Hours)	STEAM OUTPUT		EXPENDITURE
	Fuel Oil (Gals.)	Gas (cu. ft.)	Pumped from Local Sources (Imperial Gallons)	Purchased (Imperial Gallons)		To Building Heating (Pounds)	To Other Services (Pounds)	
Baker Memorial Sanatorium, Calgary	....	81,319,000	33,594,000	.....	671,700	82,300	44,930,000	14,977,000 \$ 79,947.78
Southern Alberta Institute of Technology, Calgary	....	148,046,000	.....	22,464,000	1,335,400	2,384,800	81,986,000	20,497,000 116,739.45
Provincial Auxiliary Hospital, Claresholm	....	27,130,000	.....	4,458,000	73,100	187,200	18,094,000	3,193,000 72,020.53
Public Works South Power Plant University Site, Edmonton	....	265,545,000	.....	5,038,000	6,642,000	30,692,200	152,091,000	3,155,000 420,728.02
Legislative Buildings and Administration Buildings, Edmonton	....	322,205,000	.....	161,920,500	6,433,100	5,284,800	187,668,000	80,429,000 194,110.40
Provincial Gaol, Fort Saskatchewan	....	80,388,000	19,904,000	.....	540,400	425,800	42,202,000	10,550,000 65,283.35
Provincial Gaol, Lethbridge	....	52,647,000	.....	45,536,000	408,500	17,000	32,074,000	8,019,000 69,123.10
Provincial Mental Institute, Oliver	....	247,528,000	.....	77,737,000	3,455,300	.....	153,854,000	51,284,000 148,963.06
Provincial Mental Hospital, Ponoka	2,475	219,081,000	66,314,000	.....	2,563,100	814,200	110,466,000	47,342,000 179,258.70
Provincial Training School, Red Deer	....	101,022,000	.....	33,860,000	1,128,400	318,000	58,108,000	24,904,000 100,473.48
Deerhome Institution, Red Deer	1,280	115,913,000	.....	30,637,500	.....	2,853,800	69,482,000	23,161,000 126,935.77
	3,755	1,591,854,000	103,737,000	381,651,000	22,826,800	43,060,100	950,955,000	287,511,000 \$1,573,583.64

Total Fuel Oil Used ..... 3,755 Gallons.  
 Total Gas Used ..... 1,591,854,000 Cubic Feet.  
 Total Water Used ..... 485,388,000 Imperial Gallons.  
 Total Electricity Used ..... 65,886,900 Kilowatt hours.  
 Total Steam Generated ..... 1,238,466,000 Pounds.

# **GAS, WATER AND POWER CONSUMPTION**

at the five below mentioned Heating Plants under the jurisdiction of the  
**MECHANICAL BRANCH—DEPARTMENT OF PUBLIC WORKS**  
 for period April 1, 1961 to March 31, 1962

	HEATING OIL (Gallons)	GAS (cu. ft.)	WATER (Imp. Gallons)	POWER (Kilowatt Hrs.)	EXPENDITURE Plant Operation and Maintenance
Bowden Institute, Bowden .....	.....	44,851,000	12,775,000	800,800	\$ 73,442.73
Provincial Gaol, Calgary .....	176,000	200,000	14,823,000	953,600	67,105.75
Rosehaven Home, Camrose .....	.....	48,415,000	12,577,000	698,400	72,618.79
Belmont Rehabilitation Centre, Edmonton .....	.....	29,900,000	4,593,000	364,800	46,217.74
Alberta Institute for Girls, Edmonton .....	.....	17,400,000	7,295,000	332,600	36,817.93
	<u>176,000</u>	<u>140,766,000</u>	<u>47,064,000</u>	<u>3,150,200</u>	<u>\$296,202.94</u>

Total Heating Oil Used .....	176,000 gallons
Total Gas Used .....	140,766,000 cubic feet
Total Water Used .....	47,064,000 gallons
Total Power Used .....	3,150,200 kilowatt hours

**STATISTICS ON CAPITAL EXPENDITURES, PROVINCIAL GOVERNMENT POWER PLANTS**  
**For Year Ending March 31, 1962**  
**(F. E. Coe—Mechanical Superintendent)**

	Oil Storage Tanks, Water Storage Tanks, Heaters, Piping, Water Softeners, Insulation	Generating Equipment, Engines, Switchboards, Foundations, Piping, Wiring, Insulation	Power Plant Mechanical Equipment	Installation of Boilers, Fans, Burners and Piping, Insulation, Controls, etc.	Atmospheric Condenser, Piping, Foundation, Insulation, Controls	Building Extensions	Expenditure
Baker Memorial Sanatorium, Calgary .....	10,150.64	.....	.....	.....	.....	.....	\$ 10,150.64
Southern Alberta Institute of Technology, Calgary .....	2,131.82	.....	.....	.....	.....	.....	2,131.82
Provincial Auxiliary Hospital, Claresholm .....	.....	.....	905.47	.....	.....	.....	905.47
Public Works South Power Plant, University Site, Edmonton .....	.....	.....	4,563.62	.....	.....	.....	4,563.62
Legislative Building Power Plant, Edmonton .....	.....	14,566.00	.....	.....	5,672.83	.....	20,238.83
Provincial Gaol, Lethbridge .....	146.95	.....	.....	21,261.00	.....	80.96	21,488.91
Provincial Mental Institute, Oliver .....	.....	.....	.....	39,071.50	.....	.....	39,071.50
Provincial Mental Hospital, Ponoka .....	5,643.23	.....	.....	.....	.....	.....	5,643.23
Provincial Training School, Red Deer .....	.....	967.45	.....	.....	.....	.....	967.45
Bowden Institution, Bowden .....	363.81	.....	.....	.....	.....	.....	363.81
Provincial Gaol, Calgary .....	.....	.....	578.88	.....	.....	.....	578.88
	18,436.45	15,533.45	6,047.97	60,332.50	5,672.83	80.96	106,104.16



